

20011219.qrp v02_n410.qrl.20011219

Date: Wed, 19 Dec 2001 19:03:10 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2410

QRP-L Digest 2410

Topics covered in this issue include:

- 1) [115240] Fw: Get me off this damn list!
by "Walt Amos" <k8cv@netzero.net>
- 2) [115241] SeeZak enclosures
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 3) [115242] Found and Old Tube
by "Mark Fancher" <mmfancher@earthlink.net>
- 4) [115243] FYI
by <jfox6@houston.rr.com>
- 5) [115244] Re: OT: Opinions on Earthlink?
by Bob Nielsen <nielsen@oz.net>
- 6) [115245] Re: Found and Old Tube
by Dave Fouchey <dafouchey@home.com>
- 7) [115246] Truffle for tonite
by Macstein@aol.com
- 8) [115247] FOX: K4FB Truffle
by "Dave WR50" <dendav@dzdn.com>
- 9) [115248] Re: OT: Opinions on Earthlink?
by Chris Trask <ctrask@primenet.com>
- 10) [115249] FT: PSK -20
by "Pastor-KC1DI" <elbc@pivot.net>
- 11) [115250] VX0/Buffer/Keyer for Tube Rigs, corrected schematic and article
by NB6M@aol.com
- 12) [115251] FOX: Cub Fox loud
by "Karl F. Larsen" <k5di@zianet.com>
- 13) [115252] Re: Found and Old Tube
by "Mike Yetsko" <myetsko@insydesw.com>
- 14) [115253] CQ Manhattan Island, NY
by Doc <70511.3041@compuserve.com>
- 15) [115254] Re: [Elmer 101] Inductor Value
by mikemo@attglobal.net
- 16) [115255] Re: [Elmer 101] Help for the tardy
by mikemo@attglobal.net
- 17) [115256] K4FB Truffle Hunt 18Dec01
by Paul Womble <pwomble1@tampabay.rr.com>
- 18) [115257] Tube messages
by "Karl F. Larsen" <k5di@zianet.com>
- 19) [115258] Re: [Elmer 101] Help for the tardy

- by mikemo@attglobal.net
- 20) [115259] Re: [fpqrp] K4FB Truffle Hunt 18Dec01
by W2AGN <w2agn@pobox.com>
 - 21) [115260] RE: [Elmer 101] Help for the tardy
by Nick Kennedy <nkennedy@tcainternet.com>
 - 22) [115261] Truffle and Cub Fox
by Jim Campbell <jim-c@nc.rr.com>
 - 23) [115262] RE: Tube messages
by Nick Kennedy <nkennedy@tcainternet.com>
 - 24) [115263] Fox -- Almost Like...
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
 - 25) [115264] Re: Tube messages
by "Rob Matherly" <kc0bom@arrl.net>
 - 26) [115265] Cub FOX on 7.054.7 = Calling CQ
by Doc <70511.3041@compuserve.com>
 - 27) [115266] Cub Fox
by Jim Campbell <jim-c@nc.rr.com>
 - 28) [115267] CQ W0CH
by Doc <70511.3041@compuserve.com>
 - 29) [115268] Re: [fpqrp] K4FB Truffle Hunt 18Dec01
by "JOSEPH PIRKLE" <ad4ih@worldnet.att.net>
 - 30) [115269] NOGA QRP CW Net Report for 12-18-01
by "Michael C. Boatright" <ko4wx@mindspring.com>
 - 31) [115270] (Fox) No Joy in Lincoln
by "TC Dufresne" <tdufresne@neb.rr.com>
 - 32) [115271] Re: Tube messages
by Mark Gilger <mgilger@brightdsl.net>
 - 33) [115272] RE: Tube messages
by Mark Gilger <mgilger@brightdsl.net>
 - 34) [115273] Re: Tube messages
by "Mike Silva" <mjsilva697@earthlink.net>
 - 35) [115274] Re: Tube messages
by "Mike Silva" <mjsilva697@earthlink.net>
 - 36) [115275] Fox: Tnx to all for Tonights Cub Fox Hunt
by Dave Sjolín <sjolin@swbell.net>
 - 37) [115276] Re: Fox: Tnx to all for Tonights Cub Fox Hunt
by "George, W5YR" <w5yr@att.net>
 - 38) [115277] Re: Tube messages
by Steven Weber <kd1jv@moose.ncia.net>
 - 39) [115278] Subj: Fox- K4FB Thursday
by W2SH@aol.com
 - 40) [115279] Re: [SPICE] Tapped Air Inductors
by Jeff Furman <jfurman@ocs.net>
 - 41) [115280] Re: I sayid: "I need some intervention!"
by Pete Burbank <plburbank@kih.net>
 - 42) [115281] Re: Tnx to all for Tonights Cub Fox Hunt
by "Trevor Jacobs" <fxtech@earthlink.net>
 - 43) [115282] Re: Tube messages

by Mike <mmorrow@companet.net>
44) [115283] Re: Tube messages
by "Pastor-KC1DI" <elbc@pivot.net>
45) [115284] Re: CQ Manhattan Island, NY
by "Dale Holloway" <dale@k4eq.com>
46) [115285] Tube Messages
by "Thom Durfee WI8W" <wi8w@arrl.net>
47) [115286] unexpected trip - two meter repeater info sought
by n5ib@juno.com
48) [115287] Re: Tube messages
by Pete Burbank <plburbank@kih.net>
49) [115288] Re: Tube messages
by W2AGN <w2agn@pobox.com>
50) [115289] 6C4s and 6AQ5s
by Chuck Carpenter <W5USJ@go.com>
51) [115290] Re: Tube messages
by William R Colbert <w5xe@juno.com>
52) [115291] Re: Tube messages
by "Mike Branca" <w3irz@att.net>
53) [115292] RE:CRT Monitor noise interference to radio
by Ken Paulson <kpaulson@earthlink.net>
54) [115293] Re: Tube messages
by William R Colbert <w5xe@juno.com>
55) [115294] Re: Fox: Tnx to all for Tonights Cub Fox Hunt
by Garie Halstead <k8kfj@ntelos.net>
56) [115295] Tube messages Time to learn
by "W3CDE Jerry L." <w3cde@bellsouth.net>
57) [115296] Re: [GQRP] SSB kits
by George Gingell <k3tks@u1.abs.net>
58) [115297] Re: [SPICE] Tapped Air Inductors
by "Brad Hernlem" <alihernlem@hotmail.com>
59) [115298] Re: Tube messages Time to learn
by "Mike Yetsko" <myetsko@insydesw.com>
60) [115299] Tubes, QRP, and CW
by wb0wao@hotmail.com (Dennis Ponsness)
61) [115300] RE: Tube messages Time to learn
by "AI2Q Alex" <ai2q@adelphia.net>
62) [115301] Nukes (was RE: Tube messages)
by "Tracy Markham" <tracy@bytemark.com>
63) [115302] Re: Nukes (was RE: Tube messages)
by "George, W5YR" <w5yr@att.net>
64) [115303] Re: Tube messages Time to learn
by "George, W5YR" <w5yr@att.net>
65) [115304] Re: Nukes (was RE: Tube messages)
by wb0wao@hotmail.com (Dennis Ponsness)
66) [115305] Re: Tubes, QRP, and CW
by "Brad Hernlem" <alihernlem@hotmail.com>
67) [115306] Re: Tube messages Time to learn

- by "Mike Yetsko" <myetsko@insydesw.com>
- 68) [115307] Re: Nukes (was RE: Tube messages)
by "Mike Yetsko" <myetsko@insydesw.com>
- 69) [115308] Re: Tube messages
by "Trevor Jacobs" <fxtech@earthlink.net>
- 70) [115309] Re: Tubes, QRP, and CW
by "W3CDE Jerry L." <w3cde@bellsouth.net>
- 71) [115310] Re: Nukes (was RE: Tube messages)
by David Hinerman <WD8CIV@worldnet.att.net>
- 72) [115311] Re: Nukes (was RE: Tube messages)
by David Hinerman <WD8CIV@worldnet.att.net>
- 73) [115312] Re: Toobs, valves, etc.
by George Franklin <w0av@juno.com>
- 74) [115313] Re: Tube messages Time to learn
by George Franklin <w0av@juno.com>
- 75) [115314] Re: Nukes (was RE: Tube messages)
by Michael Fletcher <kl7ixi@yahoo.com>
- 76) [115315] Re: Nukes (was RE: Tube messages)
by "Rob Matherly" <kc0bom@arrl.net>
- 77) [115316] Re: Tube messages
by "Rob Matherly" <kc0bom@arrl.net>
- 78) [115317] Sale = The 3rd Annual QRP Contest Calendar for 2002
by "Ron Polityka" <wb3aal@fast.net>
- 79) [115318] Re: Nukes (was RE: Tube messages)
by "Mike Yetsko" <myetsko@insydesw.com>
- 80) [115319] AM: Was Tube messages
by Ed Manuel <edmanuel@directvinternet.com>
- 81) [115320] Re: [Elecraft] Thermeleze insulated wire
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 82) [115321] Re: [NJQRP] Sale = The 3rd Annual QRP Contest Calendar for 2002
by W2AGN <w2agn@pobox.com>
- 83) [115322] Re: Nukes (was RE: Tube messages)
by "Michael C. Boatright" <ko4wx@mindspring.com>
- 84) [115323] RE: Tube messages Time to learn
by "AI2Q Alex" <ai2q@adelphia.net>
- 85) [115324] Hole Punch- a new mystery
by "Dave Benson" <nn1g@earthlink.net>
- 86) [115325] RE: Tube messages Time to learn
by "AI2Q Alex" <ai2q@adelphia.net>
- 87) [115326] RE: Hole Punch- a new mystery
by Mark Schoonover <schoon@amgt.com>
- 88) [115327] Re: AM: Was Tube messages
by Dave Fouchey <dafouchey@home.com>
- 89) [115328] Re: Tube messages Time to learn
by "Prof. Arnaldo Coro Antich" <inforhc@ip.etcscu>
- 90) [115329] Re: Hole Punch- a new mystery
by Michael Fletcher <kl7ixi@yahoo.com>
- 91) [115330] Tubes Tubes

by hamjoel@juno.com

92) [115331] K2 for Sale
by Joe Reed <joe@n9jr.dyndns.org>

93) [115332] Re: Nukes (was RE: Tube messages)
by David Hinerman <WD8CIV@worldnet.att.net>

94) [115333] RE: [Elecraft] Thermeleze insulated wire - shameless plug
by "Tracy Markham" <tracy@bytemark.com>

95) [115334] RE: Tube messages Time to learn
by "AI2Q Alex" <ai2q@adelphia.net>

96) [115335] RE: Tube messages Time to learn
by "AI2Q Alex" <ai2q@adelphia.net>

97) [115336] Re: Nukes (was RE: Tube messages)
by "Karl F. Larsen" <k5di@zianet.com>

98) [115337] RE: Nukes (was RE: Tube messages)
by "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>

99) [115338] Re: Nukes (was RE: Tube messages)
by W2AGN <w2agn@pobox.com>

100) [115339] Re: Nukes (was RE: Tube messages)
by "Charles" <cvest@hit.net>

101) [115340] Re: Tube messages
by "Howard Kraus" <K2UD@adelphia.net>

102) [115341] Re: AM: Was Tube messages
by "Trevor Jacobs" <fxtech@earthlink.net>

103) [115342] Re: AM: Was Tube messages
by "Rob Matherly" <kc0bom@arrl.net>

104) [115343] re tubes
by "Karl F. Larsen" <k5di@zianet.com>

105) [115344] Re: re tubes
by "Rob Matherly" <kc0bom@arrl.net>

106) [115345] Re: re tubes
by "Rob Matherly" <kc0bom@arrl.net>

107) [115346] Tubes another aspect
by Dragon Singer <WM-Scace@wiu.edu>

108) [115347] Re: re tubes
by Paul Womble <pwomble1@tampabay.rr.com>

109) [115348] Re: re tubes
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>

110) [115349] Re: re tubes
by W2AGN <w2agn@pobox.com>

111) [115350] Re: re tubes
by "Brad Hernlem" <alihernlem@hotmail.com>

112) [115351] Re: re tubes
by Bruce Muscolino <w6toy@erols.com>

113) [115352] OT - Procedure for changing address on License
by stjoh@ocsnet.net

114) [115353] Re: re tubes
by "Rob Matherly" <kc0bom@arrl.net>

115) [115354] Re: Tubes another aspect

by Dragon Singer <WM-Scace@wiu.edu>
116) [115355] Re: Tube messages Time to learn
by "Tom Pennebaker" <n4rs@netpath-rc.net>
117) [115356] Re: Nukes (was RE: Tube messages)
by baltimoremd@baltimoremd.com
118) [115357] Re: re tubes
by "George, W5YR" <w5yr@att.net>
119) [115358] Straight Key source
by "Jim Stamper" <jstamper@shentel.net>
120) [115359] Re: Straight Key source
by "T.E. 'Doc' Drake - W5TB" <w5tb@arrl.net>
121) [115360] Re: Straight Key source
by "Lee Mairs" <lmairs@cox.rr.com>
122) [115361] tubes sound better?
by Nick Kennedy <nkennedy@tcainternet.com>

Date: Tue, 18 Dec 2001 19:19:21 -0500
From: "Walt Amos" <k8cv@netzero.net>
To: <qrp-l@lehigh.edu>
Subject: [115240] Fw: Get me off this damn list!
Message-ID: <002201c18822\$cf0bd7d0\$c7e95aa6@waltk8cv>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

No it's the DARLICKS from Dr. Whoooo and we are doomed ! We will all be
absorbed into the hive mind soon !

Baloooooooooooooooooooo

----- Original Message -----

From: "Mark Schoonover" <schoon@amgt.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, December 18, 2001 6:12 PM
Subject: RE: Get me off this damn list!

> Somehow your ISP thinks the email address to this list is a spam host....
> There's ways to get that changed, but it will take some persistence on
your
> part. Or maybe the list admin will have mercy and unsub you...
>
> .mark
>
> -----Original Message-----

> From: Karl Heller [mailto:kheller@stargate.net]
> Sent: Tuesday, December 18, 2001 2:36 PM
> To: Low Power Amateur Radio Discussion
> Subject: Get me off this damn list!
>
>
> Regardless of the address I use to try to unsub from this list
> (the first address used was the one listed on the webpage), I
> get the following:
>
>
> <qrp-1@Lehigh.EDU>:
> 128.180.39.20 does not like recipient.
> Remote host said: 553 5.3.0 <qrp-1@Lehigh.EDU>... Rejected - see
> <http://relays.osirusoft.com/cgi-bin/rbcheck.cgi>
> Giving up on 128.180.39.20.
>
> <owner-qrp-1@Lehigh.EDU>:
> 128.180.39.20 does not like recipient.
> Remote host said: 553 5.3.0 <owner-qrp-1@Lehigh.EDU>... Rejected - see
> <http://relays.osirusoft.com/cgi-bin/rbcheck.cgi>
> Giving up on 128.180.39.20.
>
> <listproc@Lehigh.EDU>:
> 128.180.39.20 does not like recipient.
> Remote host said: 553 5.3.0 <listproc@Lehigh.EDU>... Rejected - see
> <http://relays.osirusoft.com/cgi-bin/rbcheck.cgi>
> Giving up on 128.180.39.20.
>
>
> Someone PLEASE get me off the list.
>
>

Sign Up for NetZero Platinum Today
Only \$9.95 per month!
<http://my.netzero.net/s/signup?r=platinum&refcd=PT97>

Date: Tue, 18 Dec 2001 18:32:45 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Pete Burbank" <plburbank@kih.net>
Cc: <qrp-1@Lehigh.EDU>
Subject: [115241] SeeZak enclosures
Message-ID: <00ef01c18824\$ad907410\$4e100a0a@rohredt2000>

Yeah Pete, they were great.

The only places I have seen them in years is at big ham convention swap meets. A few NOS turn up, and I buy them and put them on the shelf for future projects. Actually, I only think I have a couple of various types.

What size were you looking for? I could watch extra close in Jan. ham fest down here.

72,

Stuart k5KVH

Date: Tue, 18 Dec 2001 19:54:41 -0500
From: "Mark Fancher" <mmfancher@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [115242] Found and Old Tube
Message-ID: <000c01c18827\$bf4a3c60\$be679a40@ae.ge.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

All:

I found an old Eimac tube. It says its a 4CX1000. Heavy and ceramic!

How do I find out if it operates or not? Is there some way I can test it, or do I have to place it into an amplifier?

Mark Fancher, AA4MF
mmfancher@earthlink.net

Date: Tue, 18 Dec 2001 19:02:02 -0600
From: <jfox6@houston.rr.com>
To: "QRP" <qrp-l@lehigh.edu>
Subject: [115243] FYI
Message-ID: <003701c18828\$c580b360\$9902a8c0@houston.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

HI,

Well, I finally found what the strange random cw like signals were that were covering almost every band.

I was in the process of preparing a battery operated portable radio to "direction find" the source. a friend of mine called on the phone and I was busy so said I would call him back. When I picked up the phone to dial, a signal of the type I mentioned suddenly appeared. I hung up, and it disappeared. Seems that the Radio Shack Called ID unit I had installed was generating some of the noise. I looked further, and found that a 3com 10BaseT

Hub was also generating the random cw like signals.

I disconnected the ID, and that went away. I shut down the HUB, and all of the random cw like signals disappeared completely. So the mystery is solved.. Thanks to all who helped with advice.

73

Foxy

jfox6@houston.rr.com

<http://www.qsl.net/w5hir>

Date: Tue, 18 Dec 2001 17:05:29 -0800
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [115244] Re: OT: Opinions on Earthlink?
Message-ID: <20011219010529.GA10898@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Win 98 (and presumably the newer versions, as well) has a telnet client built-in. Just go to a MS-DOS prompt and type: telnet <hostname>

Running Linux, I have a shell account on my own computer, of course. I also have a Linux box as my firewall/router and can telnet to it from anywhere, if necessary. Actually I use SSH (secure shell) instead of telnet, since everything is encrypted and I'd rather not have unencrypted passwords going out if there is another way to make the connection. I also have accounts on a few other machines around the country, which came in handy when my DSL modem failed and it took about three weeks to get a replacement.

Bob, N7XY

On Tue, Dec 18, 2001 at 05:26:04PM -0600, Rob Matherly wrote:
> How exactly do you do that anyway? (Connecting via telnet that is)

--

Bob Nielsen, N7XY
Bainbridge Island, WA
IOTA NA-065, USI WA-028S

nielsen@oz.net
<http://www.oz.net/~nielsen>

Date: Tue, 18 Dec 2001 20:09:30 -0500
From: Dave Fouchey <dafouchey@home.com>
To: mmfancher@earthlink.net,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115245] Re: Found and Old Tube
Message-ID: <4.1.20011218200816.00979210@localhost>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

an odd tube to be discussing on a QRP list... Not sure how to test other
than in an AMP. Best bet is to sell it As Is to some QRO op...;-)

73's
Dave
WA4EMR/8

At 07:54 PM 12/18/2001 -0500, Mark Fancher wrote:
>All:
>
>I found an old Eimac tube. It says its a 4CX1000. Heavy and ceramic!
>
>How do I find out if it operates or not? Is there some way I can test it,
>or do I have to place it into an amplifier?
>
>Mark Fancher, AA4MF
>mmfancher@earthlink.net
>

Date: Tue, 18 Dec 2001 20:42:20 EST
From: Macstein@aol.com
To: fpqrp-1@mpna.com, qrp-1@lehigh.edu
Subject: [115246] Truffle for tonite
Message-ID: <147.68eb9ac.29514a7c@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Paul K4FB is playing Truffle on 7046.

-MAC-
AF4PS

Date: Tue, 18 Dec 2001 18:42:47 -0700
From: "Dave WR50" <dendav@dzdn.com>
To: "Flying Pigs" <fpqrp-1@mpna.com>, "QRPL" <qrp-1@lehigh.edu>
Subject: [115247] FOX: K4FB Truffle
Message-ID: <008c01c1882e\$77ffa3c0\$556357d1@dwiniield>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

on 7.046...

good signal into West Texas tonight

72/73 es oo,

Dave Winfield, WR50
El Paso, Texas DM61ts

FP# -109, SOC #371, ARS #996, Zombie #793

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.306 / Virus Database: 166 - Release Date: 12/4/01

Date: Tue, 18 Dec 2001 18:52:48 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Rob Matherly <kc0bom@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115248] Re: OT: Opinions on Earthlink?
Message-ID: <Pine.BSI.3.96.1011218184350.27590A-100000@usr01.primenet.com>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Go to the lower left-hand corner of the screen and click on "START". Next, click on "RUN". In the window, type in "TELNET". Now, click on "Connect". You will have to type in the name of your ISP provider (try "Primenet.com"). Also, choose VT100 as the terminal emulator. Not all ISP providers have BDS/UNIX ability.

Try that exercise on any computer you go to that gives you any internet access. You'll be amazed how wonderful it is to connect anywhere in the world that simply. And you don't have to pay roaming charges. Most university computer systems allow users to telnet in for email access. At least, that's been my experience to date.

I don't use the Windows TELNET accessory for telnetting unless I have no alternative. I instead use a programme called JTERM, which is much more capable. TELNET, for instance, does not have upload/download capability. It's just a simple terminal reader. ProComm Plus has full capability, as well as an internal dialer. It is a full-featured VT100 terminal emulator.

Chris

On Tue, 18 Dec 2001, Rob Matherly wrote:

```
> How exactly do you do that anyway? (Connecting via telnet that is)
>
> 72/73/oo
> Rob, kc0bom
> ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPp-I #19
>
> -----
> Visit my website! http://www.qsl.net/kc0bom
>
> AIM - kc0bom, jimrob4 MSN - jimrob@jetnetinc.net
>
> ----- Original Message -----
> From: Chris Trask <ctrask@primenet.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Sent: Monday, December 17, 2001 8:18 PM
> Subject: Re: OT: Opinions on Earthlink?
>
>
>
> Bob,
> I'm with you entirely on the value and security of a shell
> account. If I could find an ISP that still offered it, I would jump over
```

> to them in a heartbeat. There are some, such as Eskimo, but they do not
> serve the Phoenix area. I have a friend here who has a local ISP account
> and uses it to TELNET into Eskimo where he can use Pine, TIN, and the LINX
> web browser. Having access to Veronica and Archie (web search engines)
> can be fun.

>

> The real beauty of the shell accounts is that you can TELNET into
> them from anywhere. I make use of a bogus shell account wherever I go,
> but it's somewhat risky as nobody knows when they will just pull the plug.
> Being totally immune from viruses is another definite plus. And then
> there's the total lack of banner advertising. And speed.

>

> I also like vacuum tubes, steam engines, fabric covered aircraft,
> and actors who keep their clothes on. :{)

>

> Chris

>

>

> On Mon, 17 Dec 2001, Bob Okas wrote:

>

> > Hi Gang,

> >

> > All good things must come to an end. Sadly, my good ol' reliable ISP
> > has been swallowed up by Verio, and the new parent is unceremoniously
> > dropping dial-up access in early January. They plan to transfer us
> > dialer-uppers to Earthlink but keeping us on for web hosting. Since I
> > don't need two ISPs, it looks like my business will go to Earthlink,
> > barring any horror stories.

> >

> > I'm a bit of a Luddite when it comes to email, newsgroups and file
> > management. I need a shell account since I prefer pine for email (never
> > had a virus problem and the mail stays on the server for easy roaming)
> > and tin for reading newsgroups. I use conventional Unix commands to
> > manage my server files. Do these capabilities exist on Earthlink or is
> > there some GUI that is going to get in my way? I've checked their
> > webpage and they seem to be pushing their software. The sales person I
> > spoke with didn't give me an unequivocal "Yes" in response to my
> > questions.

> >

> > Thoughts, opinions and experiences are most welcome!

> >

> > 73,

> > Bob - W3CD

> >

> >

>

> /,------. High Performance Mixers and
> / What's all this \ Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

High Performance Mixers and Amplifiers for RF Communications

```

      ,-----'
    /   What's all this   \
   / extinct stuff, anyhow? \
  \ -----'
 _ ||/
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```

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Tue, 18 Dec 2001 20:53:38 -0500
From: "Pastor-KC1DI" <elbc@pivot.net>
To: "Low Power Amateur Radio Discussion" <grp-l@Lehigh.EDU>
Subject: [115249] FT: PSK -20
Message-ID: <000501c1882f\$fb230020\$5973cccd8@dor>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have a nice Psk -20 works well with factory case would trade for good CW rig.. Century 21/ or what have you.

Thanks for the Band Width.
73 Dave kc1di

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.309 / Virus Database: 170 - Release Date: 12/17/01

Date: Tue, 18 Dec 2001 21:00:04 EST
From: NB6M@aol.com
To: QRP-L@lehigh.edu
Subject: [115250] VX0/Buffer/Keyer for Tube Rigs, corrected schematic and article
Message-ID: <f4.13d22a1f.29514ea4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi All,

As Bob, W3CD, was kind enough to point out, I made an error on the schematic for the updated circuit, showing the 1.5 K resistor off the base of the 2N3906 in the keying circuit connected to ground, instead of to 12 Volts positive, DC, where it certainly does go.

I have redrawn the schematic, and have also re-written the article, as I did quite a bit of further testing with the feedback capacitor values in the oscillator circuit, attempting to make it start and stabilize on both 40 and 80 quickly enough that electronic keying of the oscillator/buffer combo could be utilized on both bands. As you will read in the updated article, I had no success.

However, the oscillator/buffer combo does start and stabilize quickly enough that electronic keying of that portion of the circuit can be used on at least one band, and the spot switch can be left on during transmission periods on other bands, with no trace of chirp, since the oscillator is continually

running in that case.

Options are, for multiband use, to try a different oscillator circuit, install a frequency offset circuit that would be switched by the keying circuit, similar to that done in the "Ugly Weekender", so that the continually running oscillator would be moved far enough away from the transmitting frequency on receive that it would not be an interference problem in the receiver, or perhaps go so far as to switch power to multiple oscillator stages which are optimized for oscillation on individual bands.

The simplest of those would be to install a frequency offset circuit, switched by the keying circuit. You are welcome to experiment. Or, use the electronic keying of the oscillator/buffer combo on one band.

I have passed the corrected schematic and article on to Jerry Parker, and I am sure he will have it up on the NorCal page soon. Check it out.

Bob, again, thank you for pointing out the error. I appreciate it.

72

Wayne NB6M

Date: Tue, 18 Dec 2001 19:08:23 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-1@lehigh.edu>
Subject: [115251] FOX: Cub Fox loud
Message-ID: <Pine.LNX.4.33.0112181904270.5633-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Dave is going to town just as he said he would. He is on 7055.00 and taking guys 500-1000 Hz higher. He is getting better than one QSO a minute now and will run out of Hounds soon.

He is near St. Louis so if you don't hear him be patient. He will get stronger I hope in YOUR direction. I gave him an honest 589 report. Right now he is 599+ so his gear is working west great!

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Tue, 18 Dec 2001 20:56:18 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <mmfancher@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [115252] Re: Found and Old Tube
Message-ID: <008c01c18832\$aa1c2c80\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

> All:
>
> I found an old Eimac tube. It says its a 4CX1000. Heavy and ceramic!
>
> How do I find out if it operates or not? Is there some way I can test
it,
> or do I have to place it into an amplifier?
>
> Mark Fancher, AA4MF
> mmfancher@earthlink.net

Hmm, there are places that 'rebuild' and refurbish those tubes. If you're
really insistant, you could send it off to one of them for testing.

If it's bad, you might still be able to get a 'core charge' money on the
thing if it's bad but rebuildable

Mike

Date: Tue, 18 Dec 2001 21:27:51 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-l@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [115253] CQ Manhattan Island, NY
Message-ID: <200112182128_MC3-EB35-BB94@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Gang:

Anyone know any QRPers living on Manhattan Island, New York? Sure would like to find someone with a station. Might persuade them to let me try for the FOXes on Thursday [gg]. =

Holly and I will be going to NYC tomorrow for a week. Will be working in the Salvation Army's canteen. This canteen is furnishing about 6800 meals per day to the relief workers at Ground Zero. This will allow some workers a few days of rest and time with their families. =

I have decided against taking a rig on this trip. Just too much hassle at the airports these days. Anyway, if anyone knows someone on Manhattan, sure would like to hear. Thanks and Happy Holidays everyone.

73,
--Doc/K0EVZ

Date: Tue, 18 Dec 2001 21:30:12 -0500
From: mikemo@attglobal.net
To: kb1dxc@discovernet.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115254] Re: [Elmer 101] Inductor Value
Message-ID: <3C1FFBB4.4C3F1EC6@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike,
Sounds right on the money. Check the posting "vfo differences". Check the archives for it
<http://www.xcivr.com/default.asp?view=elmer101>
Regards,
Mike M. KU4QO

kb1dxc wrote:

>
> Hi Folks,

>
> I am building the 40 meter version here. I did get a reading
> on my VFO by clipping a wire to R16, which connects to the base of
> the Q2. I then laid the wire over my other radio, an Icom 735 and
> found the signal. On my VFO it tunes to 3.0733 Mhz. I was looking
> through the manual and I could not find the info as to what frequency
> it should be. If anyone knows if I am close to what it should be I
> would appreciate knowing.

Date: Tue, 18 Dec 2001 21:33:58 -0500
From: mikemo@attglobal.net
To: jmcgough@nwlinc.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115255] Re: [Elmer 101] Help for the tardy
Message-ID: <3C1FFC96.CF130958@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jim,
Likely, this supply will do fine. Once the load increases the supply
voltage will likely decrease closer to 12 volts. Just be sure that the
input voltage never exceeds 16 volts as this will begin to exceed the
ratings of some of the components of the radio. 500mA may be a bit on
the weak side, so if you get signal reports of "chirp" or a raspy CW
note you might want to check if it is being caused by the power supply.
Regards,
Mike Maiorana, KU4Q0

Jim McGough wrote:

>
> I am just getting started, but should have a week's free time to catch up (I
> hope).
>
> In lesson one, first part, I installed D13, C112, C102, and U2, and got
> pretty much the readings that were expected.
>
> My "12V" 500 mA power supply (Radio Shack 273-1773), however, tests out on
> my multimeter (Heathkit IM-2320) at about 14.9V, not 12V.
>
> Will this discrepancy in voltages affect this and future readings?
>
> Thanks for any help.
>
> Jim McGough
> KD7OWS

> Seattle

Date: Tue, 18 Dec 2001 21:37:55 -0500
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Flying Pigs <fpqrp-1@mpna.com>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115256] K4FB Truffle Hunt 18Dec01
Message-ID: <3C1FFD82.258A537A@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Pappa Diz was AWOL...so I jumped in to pinch hit. Fired up on 7046 at 0140z.

Those lucky enough to make the log were:

AF4PS
WR50
K4BYF
WV9N
N8IE
W8PIG
W5YR
N1TP
N2CQ
AD4IH
KG4LDY
K4GT
K9IS
K5JHP
K4ADI
K8CV
W4BQP
W9HL
WA8BXN
K0EVZ

Hope conditions are good Thursday night for my FOX run.

73
Paul K4FB/truffle

Date: Tue, 18 Dec 2001 19:41:50 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-1@lehigh.edu>
Subject: [115257] Tube messages
Message-ID: <Pine.LNX.4.33.0112181931140.5670-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I fail to see what finding a 4cx-1000 has to do with QRP. I also am a little tired of seeing excited messages about getting a 12au7 going on 40 meters.

Of the two the 12au7 is at least QRP. But gezzzz those days are over and life is so much nicer now. My FT-817 has a push-pull final amp of 2 transistors. That is interesting since it has a clean crisp signal just like my Ten Tec Argonaut, which has a push-pull final.

I'm building for pleasure a 2N2 40 meter CW rig with nothing but 2n2222 transistors in it! But it will have one change by me. The final amp of the transmitter is 3 2n2222 but I am going to use 2 Radio Shack FET's in push-pull. With 12 volts I expect to get 12 watts out or more. Good clean CW. The rig has a power control and I will turn it down to 5 watts. I will have VERY low even harmonics.

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Tue, 18 Dec 2001 21:40:56 -0500
From: mikemo@attglobal.net
To: jmcgough@nwlinc.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115258] Re: [Elmer 101] Help for the tardy
Message-ID: <3C1FFE38.DD0AFC40@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jim,
If your DC supply was "perfect", had no internal resistance, and the cables leading to the radio had no resistance or inductance and were immune to RF pickup, then you could probably remove some of the initial

power filtering. However, since there are no perfect components, these filter components insure that the radio will function even with a slightly noisy supply. The big electrolytic capacitor helps supply the beginning transient surge of power required when the key is pressed. The smaller caps keep any RF out of the power supply.

Best regards,

Mike Maiorana, KU4QO

Jim McGough wrote:

>

> To the patient and indulgent:

>

> In the notes to the power supply section, it is said that "C102 and C112 provide decoupling on the power rail. They provide a low impedance path for any AC on the internal power system. This keeps the supply a clean D.C. voltage with a very small A.C. component".

>

> Evidently, the assumption is that we will use some sort of AC-transformer power supply instead of battery?

>

> If one wishes to use only battery power, are there components that could be eliminated?

Date: Tue, 18 Dec 2001 21:45:50 -0500

From: W2AGN <w2agn@pobox.com>

To: Paul Womble <pwomble1@tampabay.rr.com>,

Flying Pigs <fpqrp-1@mpna.com>,

Subject: [115259] Re: [fpqrp] K4FB Truffle Hunt 18Dec01

Message-ID: <0112182145500C.08524@njbirdman>

Content-Type: text/plain;

charset="iso-8859-1"

MIME-Version: 1.0

Content-Transfer-Encoding: 8bit

On Tuesday 18 December 2001 21:37, Paul Womble wrote:

> Pappa Diz was AWOL...so I jumped in to pinch hit. Fired up on 7046 at
> 0140z.

--

Diz is working on his acceptance speech. If he doesn't get the ARCI BoD job, I think I'll nominate him for an office in the AARA, or whatever it's called.

John L Sielke W2AGN
w2agn@pobox.com
<http://www.qsl.net/w2agn>

Date: Tue, 18 Dec 2001 20:51:09 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'jmcgough@nwlink.com'" <jmcgough@nwlink.com>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [115260] RE: [Elmer 101] Help for the tardy
Message-ID: <01C18805.B90DFC00.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I wouldn't eliminate the bypass capacitors--not the small ones, anyway.

When I look an an RF circuit from the DC perspective, ground is ground and Vcc is Vcc. But when I look at it from the RF perspective, ground is ground and DC is ground too. I think it's an expectation (usually) that the Vcc busses are at RF ground potential, without regard to filtering out anything that came from the power supply.

72--Nick, WA5BDU

-----Original Message-----

From: Jim McGough [SMTP:jmcgough@nwlink.com]

In the notes to the power supply section, it is said that "C102 and C112 provide decoupling on the power rail. They provide a low impedance path for any AC on the internal power system. This keeps the supply a clean D.C. voltage with a very small A.C. component".

Evidently, the assumption is that we will use some sort of AC-transformer power supply instead of battery?

If one wishes to use only battery power, are there components that could be eliminated?

Jim McGough
KD7OWS

Date: Tue, 18 Dec 2001 21:51:44 -0500

From: Jim Campbell <jim-c@nc.rr.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [115261] Truffle and Cub Fox
Message-ID: <3C2000C0.AC1EA690@nc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tonight was my night <VBG>. I didn't hear about the Truffle until his time was almost up. However, thanks to a "heads-up" on this reflector, I tuned to his freq and got him first try. Took me a little longer to get the Cub Fox. I was able to give them both a 599, while I received a 559 from them. Not bad for my "stealth" attic dipole. Love my K2 #2268 especially with the KAT2. This is about as good as it gets.

Santa is bringing me the 160 M option and the KI02. More toroids to wind - oh happy day!

Jim
W4BQP - NC

Date: Tue, 18 Dec 2001 20:54:28 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115262] RE: Tube messages
Message-ID: <01C18806.2FCC8B40.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

... 'swrong with tubes?

I must have missed all the 12AU7 posts. Keep 'em coming.

72--Nick, WA5BDU

-----Original Message-----
From: Karl F. Larsen [SMTP:k5di@zianet.com]

I also am a little tired of seeing excited messages about getting a 12au7 going on 40 meters.

Date: Tue, 18 Dec 2001 21:14:37 -0600
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [115263] Fox -- Almost Like...
Message-ID: <200112190314.AA00984@bolshoi.cc.misu.nodak.edu>
Content-Type: text/plain
Mime-Version: 1.0 (NeXT Mail 4.2mach_patches v148.2)

Shooting fish in a barrel. :-) I was running a bit late due to my decision to wok up some Thai food for supper. Found Dave, and some crazy carrier right close. Dave was running 559-599, and the 100 Hz filter weeded him out from the junk enough that I had good copy. Pretty good pack. Sat back and listened a bit, found a spot, and threw out a couple calls. No luck, but I wasn't expecting any just yet. :-)

Checked my mail, and had a message about a server down at work. Would have to go in, and probably be tied up for a while. Dave still going strong, so I move a bit and in two calls I have him. :-) Happy dance time! :-) Snap off the radio and head over to work to see what's ailing the server. A quick reboot there and all was well. Total hunt time about 15 minutes. Time out and back from work about 45 minutes. A good fox session therefore is at least three times better than work! :-)

72/73,

Todd, AG0T

Date: Tue, 18 Dec 2001 21:23:00 -0600
From: "Rob Matherly" <kc0bom@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115264] Re: Tube messages
Message-ID: <028b01c1883c\$7c481a80\$ae11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

(This isn't a flame so don't take it the wrong way please.)

Okay, time for Mr. Rob's lessons on what to do about messages on this list that you don't like reading.... two words: DELETE KEY.

Some of us actually enjoy vacuum tubes and reading about them. There are

lots of messages here that don't interest me, but I don't complain about them, I just delete them. I know there are lots of people that enjoy reading messages on Linux aps, but I don't. I don't ask the group not to talk about them, I just delete them.

Again Karl, not a flame, just my POV.

72/73/oo

Rob, kc0bom

ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPp-I #19

Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 MSN - jimrob@jetnetinc.net

----- Original Message -----

From: Karl F. Larsen <k5di@zianet.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, December 18, 2001 8:41 PM

Subject: Tube messages

I fail to see what finding a 4cx-1000 has to do with QRP. I also am a little tired of seeing excited messages about getting a 12au7 going on 40 meters.

Of the two the 12au7 is at least QRP. But gezzzz those days are over and life is so much nicer now. My FT-817 has a push-pull final amp of 2 transistors. That is interesting since it has a clean crisp signal just like my Ten Tec Argonaut, which has a push-pull final.

I'm building for pleasure a 2N2 40 meter CW rig with nothing but 2n2222 transistors in it! But it will have one change by me. The final amp of the transmitter is 3 2n2222 but I am going to use 2 Radio Shack FET's in push-pull. With 12 volts I expect to get 12 watts out or more. Good clean CW. The rig has a power control and I will turn it down to 5 watts. I will have VERY low even harmonics.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Tue, 18 Dec 2001 22:25:14 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-1@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [115265] Cub FOX on 7.054.7 = Calling CQ
Message-ID: <200112182225_MC3-EB1A-AB57@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
 charset=ISO-8859-1
Content-Disposition: inline

Gang:

Dave N0IT is on 7.054.7 and calling CQ Fox. He has terrific ears and will
hear you if you give him a holler. I bagged him at 500 mW just to see if
it were possible. He came right back. Wow. Dave is not quite as strong
as earlier, but is still 579.

OH--he says he is having some difficulty with QRN, so hang in there. Good
luck, everyone.

73,
--Doc/K0EVZ

Date: Tue, 18 Dec 2001 22:29:19 -0500
From: Jim Campbell <jim-c@nc.rr.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [115266] Cub Fox
Message-ID: <3C20098F.A2844007@nc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dave, N0IT, is calling CQ FOX now with no takers. I'm still hearing him
a good 359 in NC. He is still smack dab on 7055.

Jim
W4BQP

Date: Tue, 18 Dec 2001 22:33:46 -0500
From: Doc <70511.3041@compuserve.com>
To: "\"Low Power Amateur Radio" <qrp-1@Lehigh.EDU>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [115267] CQ W0CH
Message-ID: <200112182233_MC3-EB1A-AB76@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
 charset=ISO-8859-1
Content-Disposition: inline

Dave:

Try again. I heard you about 569. GL.

73,
--Doc/K0EVZ

Date: Tue, 18 Dec 2001 22:49:18 -0500
From: "JOSEPH PIRKLE" <ad4ih@worldnet.att.net>
To: "Paul Womble" <pwomble1@tampabay.rr.com>,
 "Flying Pigs" <fpqrp-1@mpna.com>,
Subject: [115268] Re: [fpqrp] K4FB Truffle Hunt 18Dec01
Message-ID: <003201c18840\$23dc2900\$90b34d0c@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Thanks for the truffle, Paul. Nice signal. Almost like you were just down the road.

""oo""

Joe

----- Original Message -----

From: "Paul Womble" <pwomble1@tampabay.rr.com>
To: "Flying Pigs" <fpqrp-1@mpna.com>; "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, December 18, 2001 09:37 PM
Subject: [fpqrp] K4FB Truffle Hunt 18Dec01

| Pappa Diz was AWOL...so I jumped in to pinch hit. Fired up on 7046 at

| 0140z.
|

Date: Tue, 18 Dec 2001 22:40:36 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: north Georgia QRP Club <nogaqrp@qth.net>
Cc: qrp-l@lehigh.edu
Subject: [115269] NOGA QRP CW Net Report for 12-18-01
Message-ID: <5.0.2.1.2.20011218221936.01c86a60@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

K04WX called the net, using the club call, NQ4RP at 0230Z (9:30pm EST) using my new Twin Tube 80 rig (at 3W). while responding to the 3rd check-in (N9MZP), the rig stopped transmitting, completely and I had to switch over to my K2 (also at 3W), that I was using for RX. Sorry for the sloppy keying. Had myself all cranked up to send straight key, and my brain really didn't want to switch to the paddle on the K2!

Had two new stations calling in tonight, N9MZP, Walt in Geneseo, IL and WB4OFT, John in Advance, NC (I say new, I've been out of town the past several nets, but in any case welcome!). Never heard of Geneseo, IL, and checked QRZ.com just to make sure I copied it down right. According to Yahoo maps, Geneseo is just about due west from Stan Makita's Donuts in Aurora, almost to the state line (west of Chicago)...

Band was really quiet tonight. Starting to get cold (finally!) in Georgia, and guess it's time for good propagation on 80M. Or at least one would surmise that from the great QRP signals from IL and NC.

Check-ins & Reports:

W4JHR, Joe, in Suwanee. Nice signal, 599, and received 599 from him as well; running his K2 at 5W
AF4MN, Guy, in Conyers. We're only 7 or 8 miles as the crow flies, but a big hill between us. His 5W was 579 and he sent 559.
N9MZP, Walt, in Geneseo, IL. His 5W was a good 599 into Atlanta (Decatur), and he sent the same report back. Running a Kenwood TS450 at 5W.
AD4S, Pickett, in Lawrenceville. In and out. Working on the web page...
599 signal into Decatur, about 5 miles as the crow flies, over a slight hill
WB4OFT, John, in Advance, NC, KnightLights Land. Nice 2x599 4Watt signal. I think he said he was using an end-fed Zepp?

After the net, AF4MN, Guy, called me on 2meters and said the Twin Tube 80 sounded great. I was bummed that it had stopped transmitting. Then I noticed that the terminals on the J38 were loose, and the key wires had come loose. Man, I hate when that happens! Anyway, what a sweet rig! (<shamelessplugforaclubproject>By the way, it's in the NOGA Compedium 2001</shamelessplugforaclubproject>).

NOGA QRP Net meets Tuesday, 9:30pm Eastern US local time, 3686.4 KHz, or thereabouts, depending on QRM.

72 de Mike, K04WX
Michael C. Boatright

Date: Wed, 19 Dec 2001 04:00:34 -0000
From: "TC Dufresne" <tdufresne@neb.rr.com>
To: <qrp-1@lehigh.edu>
Subject: [115270] (Fox) No Joy in Lincoln
Message-ID: <006e01c18841\$b63a2440\$89b41c41@neb.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

No Fox tonite!

The mojo wasn't working, or condx weren't right, or maybe I have lousy ears, or maybe a combo of all. I heard KG0LD booming in, but alas, no mounsier le fox...

Perhaps next time...
Tom
KC0GXX

Date: Tue, 18 Dec 2001 23:05:42 -0500
From: Mark Gilger <mgilger@brightdsl.net>
To: k5di@zianet.com,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115271] Re: Tube messages
Message-ID: <4.3.0.20011218225443.00b89dd8@mail.brightdsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

There is a whole other world out there that your missing out on. Tubes are staging a come back and there are lots of QRP designs. So lets keep an open mind. This reflector is for QRP. That does not mean transistors.

Mark, wb0iqk

At 07:41 PM 12/18/2001 -0700, Karl F. Larsen wrote:

> I fail to see what finding a 4cx-1000 has to do with QRP. I also
>am a little tired of seeing excited messages about getting a 12au7 going
>on 40 meters.
>
> Of the two the 12au7 is at least QRP. But gezzzz those days are
>over and life is so much nicer now. My FT-817 has a push-pull final amp of
>2 transistors. That is interesting since it has a clean crisp signal just
>like my Ten Tec Argonaut, which has a push-pull final.
>
> I'm building for pleasure a 2N2 40 meter CW rig with nothing but
>2n2222 transistors in it! But it will have one change by me. The final amp
>of the transmitter is 3 2n2222 but I am going to use 2 Radio Shack FET's
>in push-pull. With 12 volts I expect to get 12 watts out or more. Good
>clean CW. The rig has a power control and I will turn it down to 5 watts.
>I will have VERY low even harmonics.
>
>--
>Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
> <http://www.zianet.com/k5di/>

[]
Mark Gilger, WB0IQK
Phone 330-658-5035
Fax 330-658-5036

Date: Tue, 18 Dec 2001 23:06:31 -0500
From: Mark Gilger <mgilger@brightdsl.net>
To: nkennedy@tcainternet.com,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115272] RE: Tube messages
Message-ID: <4.3.0.20011218230607.015914c0@mail.brightdsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Where is the schematic info. Would like to build this one.
Mark, WB0IQK

At 08:54 PM 12/18/2001 -0600, Nick Kennedy wrote:

>... 'swrong with tubes?

>

>I must have missed all the 12AU7 posts. Keep 'em coming.

>

>72--Nick, WA5BDU

>

>-----Original Message-----

>From: Karl F. Larsen [SMTP:k5di@zianet.com]

>

>I also am a little tired of seeing excited messages about getting a 12au7
>going

>on 40 meters.

>

>

[]

Mark Gilger, WB0IQK

Phone 330-658-5035

Fax 330-658-5036

Date: Tue, 18 Dec 2001 20:07:15 -0800

From: "Mike Silva" <mjsilva697@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [115273] Re: Tube messages

Message-ID: <005301c18842\$a597e9a0\$ccd9b3d1@computer>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

C'mon, let the kids (me, me!) have their fun! They'll be growing up soon
enough...

Which reminds me, I've still got some 5763s left at \$1 each (limit 5) plus
\$2 shipping, if any more of you want to rough it ;-)

73,

Mike, KK6GM

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, December 18, 2001 6:41 PM
Subject: Tube messages

>
> I fail to see what finding a 4cx-1000 has to do with QRP. I also
> am a little tired of seeing excited messages about getting a 12au7 going
> on 40 meters.
>
> Of the two the 12au7 is at least QRP. But gezzzz those days are
> over and life is so much nicer now. My FT-817 has a push-pull final amp of
> 2 transistors. That is interesting since it has a clean crisp signal just
> like my Ten Tec Argonaut, which has a push-pull final.
>
> I'm building for pleasure a 2N2 40 meter CW rig with nothing but
> 2n2222 transistors in it! But it will have one change by me. The final amp
> of the transmitter is 3 2n2222 but I am going to use 2 Radio Shack FET's
> in push-pull. With 12 volts I expect to get 12 watts out or more. Good
> clean CW. The rig has a power control and I will turn it down to 5 watts.
> I will have VERY low even harmonics.
>
> --
> Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
> <http://www.zianet.com/k5di/>
>

Date: Tue, 18 Dec 2001 20:12:22 -0800
From: "Mike Silva" <mjsilva697@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [115274] Re: Tube messages
Message-ID: <006501c18843\$5c3d6b80\$ccd9b3d1@computer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

There are a couple of P-P rigs here that might get you started:

<http://www.mines.uidaho.edu/~keng/sch/>

73,

Mike, KK6GM

----- Original Message -----

From: "Mark Gilger" <mgilger@brightdsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, December 18, 2001 8:06 PM
Subject: RE: Tube messages

> Where is the schematic info. Would like to build this one.
> Mark, WB0IQK
>
> At 08:54 PM 12/18/2001 -0600, Nick Kennedy wrote:
> >... 'swrong with tubes?
> >
> >I must have missed all the 12AU7 posts. Keep 'em coming.
> >
> >72--Nick, WA5BDU
> >
> >-----Original Message-----
> >From: Karl F. Larsen [SMTP:k5di@zianet.com]
> >
> >I also am a little tired of seeing excited messages about getting a 12au7
> >going
> >on 40 meters.
> >
> >
> >
> []
> Mark Gilger, WB0IQK
> Phone 330-658-5035
> Fax 330-658-5036
>

Date: Tue, 18 Dec 2001 22:47:15 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: Qrp-l Reflector <qrp-l@Lehigh.EDU>
Subject: [115275] Fox: Tnx to all for Tonights Cub Fox Hunt
Message-ID: <3C201BD3.3A15EF4A@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Thanks to all. I was hoping to give out fifty pelts tonight and I did.

Unfortunately, I gave out 43 of them in the first hour.

At the beginning of the hunt I think at least fifty hounds were calling. I don't think I've had that kind of pileup before. Wow what a rush! But you guys were all very well behaved. Seems like most people were calling far off my frequency. Most about one kHz. And when I asked for a fill on a call, only once did I hear more than one station come back. Thanks.

During second hour someone in the neighborhood must have turned on some electrical device because my noise level shot from S1 to S9 and hung there for more than a half hour. Those of you who made it through in the second hour had some strong signs to get thru that noise. Sorry if you called and I just couldn't pull through.

Will have the log up tomorrow. Please let me know about any corrections.

Seasons Greetings
72/73 de Dave, N0IT

Date: Tue, 18 Dec 2001 23:00:16 -0600
From: "George, W5YR" <w5yr@att.net>
To: sjolin@swbell.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115276] Re: Fox: Tnx to all for Tonights Cub Fox Hunt
Message-ID: <3C201EE0.5ED2C9FE@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dave, I owe you special thanks for awarding me the No. 1 spot in your log tonight.

I thought that I heard someone (you) tuning up a bit around 7055, so I "estimated" (that's technical engineering talk for "guessed") that you would start off listening at exactly 7055.670 KHz. So, I parked the second VFO there and waited for your CW FOX.

As soon as you sent that I called you one time, and back you came! Still a thrill to have that happen!

Your signal was consistently good for the first 30 minutes or so while I was still listening and following the action. Your operating was exceptional in that we always knew who you were working, when you needed fills, etc. Thanks for the consideration.

Looking forward to the next Hunt with your signal on the other end.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

All incoming and outgoing email virus-checked by Norton Anti-Virus 2002

Dave Sjolin wrote:

>
> Thanks to all. I was hoping to give out fifty pelts tonight and I did.
> Unfortunately, I gave out 43 of them in the first hour.
>
> At the beginning of the hunt I think at least fifty hounds were calling.
> I dont think Ive had that kind of pileup before. Wow what a rush! But
> you guys were all very well behaved. Seems like most people were calling
> far off my frequency. Most about about one khz. And when I asked for a
> fill on a call, only once did I hear more than one station come back.
> Thanks.
>
> During second hour someone in the neighborhood must have turned on some
> electrical device because my noise level shot from S1 to S9 and hung
> there for more than a half hour. Those of you who made it through in the
> second hour had some strong signs to get thru that noise. Sorry if you
> called and I just couldnt pull through.
>
> Will have the log up tomorrow. Please let me know about any corrections.
>
> Seasons Greetings
> 72/73 de Dave, N0IT

--

Date: Wed, 19 Dec 2001 00:20:25 -0500
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [115277] Re: Tube messages
Message-ID: <3.0.6.32.20011219002025.007a2660@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>I also am a little tired of seeing excited messages about getting a 12au7
>going on 40 meters.

>

Building a tube rig is just as much fun as building a 2N2222 rig. Some might say more so. The raw simplicity of a tube transmitter has it own unique charm.

I just found I do have a couple of 5763's in the old tube collection. I'm gonna try and find some time between now and new years to cobble up a little transmitter to go along with my Drake 2B, which has been feeling very lonely and neglected for some time now...

...and it is a lot of fun to say "rig hr is Drake 2B and HB tube xmtr" That gets a lot of "WOWS" and I remember when I had...

72,

Steve, KD1JV

"Melt Solder"

White Mountians of New Hampshire

<http://www.qsl.net/kd1jv/>

Date: Wed, 19 Dec 2001 01:54:34 EST
From: W2SH@aol.com
To: qrp-1@lehigh.edu
Cc: pwomble1@tampabay.rr.com
Subject: [115278] Subj: Fox- K4FB Thursday
Message-ID: <17b.1012460.295193aa@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

>>Remember: I want to work YOU! My goal is 100+ pelts...so help me out.<<

You mean you want to skin 100 dawgs for your big canine dxcc???

You must be one tough foxy woxy!!!

Count this chicken hound out, out, out!

Adios,

Charles, W2SH

Date: Tue, 18 Dec 2001 23:55:51 -0800 (PST)
From: Jeff Furman <jfurman@ocs.net>
To: Brad Hernlem <alihernlem@hotmail.com>
Cc: leon_heller@hotmail.com, MertNellis@aol.com,

WD8CIV@worldnet.att.net, qrp-1@lehigh.edu
Subject: [115279] Re: [SPICE] Tapped Air Inductors
Message-ID: <Pine.LNX.4.21.0112182024540.16814-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi,Brad,

I analyzed successively more complicated cases of L-C networks to try to develop some intuition:

In all cases, the impedance of the overall circuit (across the inductor(s)) is computed. Substitute $j\omega$ for s in these expressions:

first, a simple parallel L-C network:

$$z = sL / (1 + (s^2)Lc)$$

next, two uncoupled inductors in series:

$$z = s(L1 + L2) / (1 + (s^2)(L1 + L2)c)$$

next, two uncoupled inductors, $L1$ and $L2$ in series, the vernier capacitor, $c2$ is across $L2$ and $c1$ is across both ($L1$ and $L2$ in series):

$$z = s((L1 + L2) + (s^2)(c2L1L2)) / (1 + (s^2)(c1(L1 + L2) + c2L2) + (s^4)(c1c2L1L2))$$

starting to look complicated...

now, two mutually coupled inductors in series aiding connection as in a tapped coil, with a single capacitor across the whole coil:

$$z = s(L1 + L2 + 2m) / (1 + (s^2)c(L1 + L2 + 2m))$$

the $L1 + L2 + 2m$ looks familiar..

now the 'band set' capacitor across both coils is $c1$ and the 'bandspread' or vernier capacitor $c2$ is across the $L1$ coil(and its mutual coupling):

$$z = s((L1 + L2 + 2m) + (s^2)c2(L1L2 - (m^2))) / (1 + (s^2)(c1(L1 + L2 + 2m) + c2L2) + (s^4)c1c2(L1L2 - (m^2)))$$

notice $L1 + L2 + 2m$ is the end to end inductance, and

$$L1L2 - (m^2) = L1L2(1 - (k^2))$$

these formulas don't make any assumptions except

$$L_t = L_1 + L_2 + 2 \cdot m$$

and

$$(k^2) = (m^2)/(L_1 \cdot L_2)$$

with the usual Kirchoff's laws applied for analysis.

now some observations:

since there is no added resistance in these circuits, all poles and zeroes are imaginary only. (if this looks complicated now, just add a resistor and see what happens)

as long as there is a single capacitor, the impedance as a function of frequency looks like a simple single tuned circuit, with an impedance zero at the origin and a conjugate imaginary pole pair.

whenever a second capacitor is added, the impedance function complicates considerably: the zero at the origin remains; a new complex conjugate imaginary zero pair develops, which is controlled by c_2 only;

the single pole pair becomes two pole pairs, but their variation is more complicated.

from realizability requirements, all the poles and zeroes must alternate on the imaginary axis, so that puts the zeroes between the poles. I strongly suspect one can show this algebraically, but this margin is too small...

the two-capacitor circuits are in ladder configurations, a classic topology. the familiar pi networks are ladder topology, too.

as I sketch the frequency response of this configuration of poles and zeroes, I notice a familiar possible double hump that reminds me of a double tuned circuit. We know that the bandwidth and the bumpiness of the passband are sensitive to the coupling; so, additional constraints must be used to figure out the response. I think this is where the derived relationship of m to the coil construction shows up; probably c_2/c_1 might be a parameter, too.

To be honest, I just threw some parts at Microcap V demo version, which is the spice version I play with: I used two separate inductors of 10uH and two capacitors of 200pF each. driven by a 1k ohm ac source, I get two peaks: a broad one at about 2.25 MHz, a narrow one at about 5.8 MHz, and a narrow notch in between them at about 5 MHz. One can certainly fiddle with the component values to see what happens. The difference between the separate and the coupled inductors is not as significant as the difference between one capacitor and two capacitors. we can see from the analysis

that if only c_2 is a variable, the cases for the separate and coupled inductors have the same functional forms.

My simulation suggests there might be another peak probably higher frequency, in Brad's circuit farther away from the first peak than expected, so the measurements are looking at the lower frequency peak moving. When I step the vernier capacitor from 400pf to 100pf in steps of 50pf, I see the upper peak moving from about 4.5MHz to 7.5MHz with the notch remaining in between the peaks, hugging the higher peak as the frequency increases (c_2 decreases), while the lower peak barely moves at all. In a way this slow tuning may be the desired vernier effect.

All this neglects some real properties of inductors, such as distributed capacitance. That has significant effects in some circumstances see a manual for a Q-meter for example.

I just realized another simulator gotcha may be in play here: Microcap V defaults to automatic step size control for the frequency points in ac analysis. When I ran the first AC sweep, I saw ugly straight lines on the bode plot where I expected smooth curves to be. This was cured by forcing regular frequency steps (I selected 10000 linear steps--it was 51 steps in the range 1kHz to 100MHz) and changing the maximum error from 5% to 0.01% so I won't miss any details. this may seem like a severe change, but, the ac analysis doesn't have the convergence problems that the transient analysis has, so it still zips along. at least increase the resolution until the plots don't change shape. That original blocky picture hid the notch detail and made the phase plot worthless. A rule of thumb is the phase plot shows the greatest change right at the poles and zeroes of the function, even if you can't tell from the amplitude plot.

This is a lot more than I ever wanted to do with this problem.

I hope it shows some of the 'behind the scenes' of circuit analysis, why do it in order to develop intuition, to allow truly educated guesses regarding circuit actions, rather than just how to do it.

73, Jeff AD6MX

On
Mon, 17 Dec 2001, Brad Hernlem wrote:

> Jeff et al.,
>

> I frequently use Wheeler's approximation and find it pretty reliable. That
> is the formula that I used to estimate my coil inductances. Also, your
> derivation of the expression for M seems correct. I plugged in my numbers
> and got an M value that produced a K that was the same as what made SPICE
> "happy" in trying to make the two inductors resonate against 100pF like the
> whole inductor alone. So at least we know that SPICE is consistent on that
> principle.
>
> But I still don't get good simulation data for my tapped bandsread tuning
> arrangement using these inductance values. The simulations suggest that I
> should be getting a tuning range about 2 MHz wide while, in fact, I see only
> about 650 kHz tuning range.
>
> When I assume that K=1 and assign the inductances as equal to the overall
> inductance from Wheeler's formula times the fraction of turns squared, I get
> good simulation results although we know that K=1 is not realistic for air
> coils.
>
> Could it be that with a resonant tank (where the entire coil AND the tap
> point are parts of the entire resonant circuit) it is an unrealistic
> assumption to view the two inductors as being separate as far as the
> magnetic field is concerned? If this is true then the K=1 assumption is not
> necessarily invalid, no?
> It seems to me that we really don't have a situation here where one coil is
> transferring energy to the other (such as in a transformer). I would imagine
> that the magnetic field builds and collapses across the entire inductor with
> each cycle of resonance.
>
> I know that I have no confidence in the approach that models each section as
> a "Wheeler formula inductor". I just wish that I could get some
> authoritative confirmation that my approach is valid (other than the one
> single experimental result that I have performed).
>
> Brad
>
>

Date: Wed, 19 Dec 2001 04:17:54 -0500
From: Pete Burbank <plburbank@kih.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115280] Re: I sayid: "I need some intervention!"
Message-ID: <5.0.2.1.0.20011219035811.00ab9d40@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:33 PM 12/18/2001 -0500, nilsbull@juno.com wrote:

> SNIP
> let's see . . . I gotta send an order to Dan's SP&K for them
> other thingies . . . and Roger's got them other doodads . . . so now all
> I gotta do is . . . oh, you're right. I better get some Christmas stuff
> for Cindy . . . I hope she likes the 19 inch plastic rooster I got her
> for Christmas from Archie McPhee. She's been wantin' chickens and I
> figure this is a good way to start a set of 'em . . .
>
> 73 youse crazy peoples! Happy! Happy! Joy! Joy!
>
> Nils
> SNIP

Gosh Nils,
You get the same intellectual catalogs that I do. I gotta get some of those
pink flamingos
for the front yard!! :-) Might feed them as phased stealth verticals HI!
HI! Any comments about
 chicken feed will be ignored.:-)
73 Youse Too :-)
 Pete NV4V

Date: Wed, 19 Dec 2001 01:41:42 -0800
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: <sjolin@swbell.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [115281] Re: Tnx to all for Tonights Cub Fox Hunt
Message-ID: <009b01c18871\$5e507e20\$8e12f4d8@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave,

Tnx for the pelt! You were nice and solid here in Burbank, CA tonight! AT
2:51 after getting into the hunt late after X-Mas shopping I was able to
get a pelt in record time! I heard you calling CQ FOX with no takers and
couldn't believe it and had a solid exchange with you. Was curious as to
what your setup was tonight. Thanks Dave and Happy Holidays!

72/73's

Trev
KG6CYN

----- Original Message -----

From: Dave Sjolin <sjolin@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, December 18, 2001 8:47 PM
Subject: Fox: Tnx to all for Tonights Cub Fox Hunt

>
> Thanks to all. I was hoping to give out fifty pelts tonight and I did.
> Unfortunately, I gave out 43 of them in the first hour.
>
> At the beginning of the hunt I think at least fifty hounds were
calling.
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> you guys were all very well behaved. Seems like most people were
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> fill on a call, only once did I hear more than one station come back.
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some
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> there for more than a half hour. Those of you who made it through in
the
> second hour had some strong signs to get thru that noise. Sorry if you
> called and I just couldnt pull through.
>
> Will have the log up tomorrow. Please let me know about any
corrections.
>
> Seasons Greetings
> 72/73 de Dave, N0IT
>

Date: Wed, 19 Dec 2001 04:54:38 -0600
From: Mike <mmorrow@companet.net>
To: nkennedy@tcainternet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115282] Re: Tube messages
Message-ID: <3C2071EE.5BE8@companet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I wasn't aware of a "technology time window" in which QRP-L postings had to fit.

At least it beats "ear effluvia" as a topic.

Mike / KK5F

Nick Kennedy wrote:

>
> ... 'swrong with tubes?
>
> I must have missed all the 12AU7 posts. Keep 'em coming.
>
> 72--Nick, WA5BDU
>
> -----Original Message-----
> From: Karl F. Larsen [SMTP:k5di@zianet.com]
>
> I also am a little tired of seeing excited messages about getting a 12au7 going
> on 40 meters.

Date: Wed, 19 Dec 2001 06:23:56 -0500
From: "Pastor-KC1DI" <elbc@pivot.net>
To: <mmorrow@companet.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115283] Re: Tube messages
Message-ID: <007001c1887f\$a6939b00\$c471ccd8@dor>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Mike" <mmorrow@companet.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, December 19, 2001 5:54 AM
Subject: Re: Tube messages

> I wasn't aware of a "technology time window" in which QRP-L postings had
> to fit.

DITTO !

> At least it beats "ear effluvia" as a topic.
>
> Mike / KK5F

I for one have enjoyed this trip down memory lane, and hope we keep tubes alive for a long time.. There is no thrill to me quite like that first QSO, with a simple one tube TX. Had several here over the years. Xtal control.. and Use and RME 6900 RX for many years.. wish now I'd never sold that RX .. And the Johnson Speedx bug .. Glowbugs enjoy..
73 DAVE

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.309 / Virus Database: 170 - Release Date: 12/17/01

Date: Wed, 19 Dec 2001 06:42:04 -0500
From: "Dale Holloway" <dale@k4eq.com>
To: <qrp-l@Lehigh.EDU>
Subject: [115284] Re: CQ Manhattan Island, NY
Message-ID: <001301c18882\$2f7afd80\$405362d8@daleholl>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Doc, I've flown many times since 9/11 and nearly always take my HT with me. Not once have I have I been hassled about it. In fact, I've never even been questioned about it. It isn't radios they're checking for on planes, it's weapons. I'm curious what kind of troubles you've had. Have they not allowed you to take your radios with you? --Dale, K4EQ

Date: Wed, 19 Dec 2001 11:58:31 -0000
From: "Thom Durfee WI8W" <wi8w@arrl.net>
To: <qrp-l@lehigh.EDU>
Subject: [115285] Tube Messages
Message-ID: <039901c18884\$7af19d80\$6401a8c0@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Oh darn. I was just getting started on my little 80 meter tube rig from an old electronics book I had in high school. The book plainly warns that "you should not hook this circuit to an antenna unless you hold a valid amateur radio license issued by the FCC".

That statement has always interested me long before I got my Novice ticket in 1977.

Now I have to shelve it because Karl does not want to hear about it.

Oh Darn

73

Thom WI8W

Date: Wed, 19 Dec 2001 07:06:08 EST
From: n5ib@juno.com
To: qrp-1@Lehigh.edu
Subject: [115286] unexpected trip - two meter repeater info sought
Message-ID: <20011219.060042.7567.0.n5ib@juno.com>

Good morning folks, I need a bit of information

The passing of an elderly relative requires my wife Gloria, WD5CMA, and her mother to travel from here in Louisiana to Washington, Indiana, leaving tomorrow. I'd appreciate information on the active two-meter repeaters along her route so I can program her radio. The on-line directories have lots of data but I'd rather know which ones are really in common use. So if you live along this route:

I-55 from Hammond, LA through Jackson MS, Memphis TN, to Sikeston MO
thence I-57 to Mt Vernon IL
thence I-64 to just north of Evansville IN
thence US-41 to Vincennes IN
thence to Washington IN

please note repeater location, input and output frequency, and any PLL tone required.

Many thanks, and keep an ear open for her. She'll have the cell phone, but likes being able to get local info from hams. In fact if you have any road closure or other anomaly info about that route, let me know.

72

Jim N5IB

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<http://dl.www.juno.com/get/web/>.

Date: Wed, 19 Dec 2001 07:11:56 -0500

From: Pete Burbank <plburbank@kih.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [115287] Re: Tube messages

Message-ID: <5.0.2.1.0.20011219060523.00abb6c0@KIH.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Steve , Karl, and gang ,

My trusty Drake 2B is no longer lonely and neglected. It is linked to a

Tuna Tin 2

with full QSK. Had a great QSO with Doc K0EVZ and his TT2 a couple days ago.

What fun!

Kinda miss the 866jr mercury vapor rectifiers flashing in the dark and the 1625s and my father somewhat concerned about strange things happening to the TV.HI!

One thing I like about old tube rigs is the smell....no not things burning..... just the ongoing odor that they emanate.

Tube rigs are as much fun as solid state rigs!!

I guess Karl is ticked about some one running a 4CX100000000000

Can't blame him for that.

Happy Holidays :-)

Pete NV4V

At 12:20 AM 12/19/2001 -0500, Steven Weber wrote:
> >I also am a little tired of seeing excited messages about getting a 12au7
> >going on 40 meters.
> >
> Building a tube rig is just as much fun as building a 2N2222 rig. Some
>might say more so. The raw simplicity of a tube transmitter has it own
>unique charm.
>
>I just found I do have a couple of 5763's in the old tube collection. I'm
>gonna try and find some time between now and new years to cobble up a
>little transmitter to go along with my Drake 2B, which has been feeling
>very lonely and neglected for some time now...
>
>...and it is a lot of fun to say "rig hr is Drake 2B and HB tube xmtr" That
>gets a lot of "WOWS" and I remember when I had...
>72,
>Steve, KD1JV
>"Melt Solder"
>White Mountians of New Hampshire
><http://www.qsl.net/kd1jv/>

Date: Wed, 19 Dec 2001 08:54:43 -0500
From: W2AGN <w2agn@pobox.com>
To: Mike <mmorrow@companet.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115288] Re: Tube messages
Message-ID: <0112190854430G.08524@njbirdman>
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Wednesday 19 December 2001 05:54, Mike wrote:
> I wasn't aware of a "technology time window" in which QRP-L postings had
> to fit.
>
> At least it beats "ear effluvia" as a topic.

> >
> > I also am a little tired of seeing excited messages about getting a 12au7
> > going on 40 meters.

--

Now, now, you guys are picking on poor Karl. You didn't use his GREAT BAND PLAN, you disagreed on "reciprocity" and now you insist on talking about topics (oddly enough, QRP related) that he doesn't like.

If you keep this up, he might leave the list. THEN wouldn't you feel bad?

I for one, have stopped picking on poor Karl.

John L Sielke W2AGN
w2agn@pobox.com
<http://www.qsl.net/w2agn>

Date: Wed, 19 Dec 2001 06:28:08 -0800 (PST)
From: Chuck Carpenter <W5USJ@go.com>
To: qrp-l@Lehigh.EDU
Subject: [115289] 6C4s and 6AQ5s
Message-ID: <7862420.1008772088288.JavaMail.W5USJ@gomailjtp04>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Glowbug QRPers,

This is my nostalgia rig combo. Something I built back in the *old days* in the manner of many others of the time. Had a 12AT7 or some-such regen receiver too.

Found some tubes and will get some sockets. I'll have it going one day soon.

Probably not in time for SKN this year though... Most likely will use my less than ancient TS-430 again. It's got transistors and microprocessors in it... 8^)...

Chuck, w5usj, Point, Rains Co TX EM22cv

GO.com Mail
Get Your Free, Private E-mail at <http://mail.go.com>

Date: Wed, 19 Dec 2001 08:11:47 -0700
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [115290] Re: Tube messages

Message-ID: <20011219.081148.-364595.0.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

There are some that should take their fancy Yahoo 817,
go for a long walk in the Gila, leaving the computer
and list behind where they won't be bothered
with Glowbug topics that seem to offend, which is
a part of QRP. Just leave the doggie at home,
it doesn't deserve the punishment.

Date: Wed, 19 Dec 2001 10:24:18 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Cc: "Mike Branca" <w3irz@att.net>
Subject: [115291] Re: Tube messages
Message-ID: <028301c188a1\$3aa21ee0\$d8eb5b0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tube are interesting as proven by the interest shown. The North Georgia QRO
club (NoGa) will be soon making another limited offering of their "Twin Tube
80" transmitter as featured in QQ October 2000. This will be announced in
January.

Mike Branca W3IRZ in Conyers Georgia

Date: Wed, 19 Dec 2001 09:41:26 -0600
From: Ken Paulson <kpaulson@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [115292] RE:CRT Monitor noise interference to radio
Message-ID: <3C20B526.85A75487@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello,

Saw a number of posts recently regarding noise generated by computer CRT

displays. In my experience, this is generally radiated RF that is related in frequency to the horizontal or vertical sync rates of the display. One thing to note about this is that you can generally move the frequency of the noise by changing these sync rates. That is, change the resolution of your display temporarily. It is common for me to have noise around 7.036Mhz on 40m. So I can hear the fox above 7.040 fine, but when I go after that lower fox, I have to change my screen resolution down from 800x600 to 640x480. The noise moves, and I'm a happy hound (assuming of course that the many other normal difficulties of successful fox hunting are overcome!) It is not a perfect solution, but sometimes it can at least get rid of the noise just at that critical time and frequency. This can also be useful to verify that the noise is indeed being generated by the display. Hope it helps someone.

Ken
n0hrl

Date: Wed, 19 Dec 2001 08:54:26 -0700
From: William R Colbert <w5xe@juno.com>
To: qrp-L@lehigh.edu
Subject: [115293] Re: Tube messages
Message-ID: <20011219.085431.-364595.2.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Those opposed to glowbug/tube mentions on the qrp-l should activate their delete key NOW.
Below is forwarded from the NOGAQRP list.

----- Forwarded message -----
From: "Mike Branca" <w3irz@att.net>
To: "NOGA_onlist \ (E-mail\)" <nogaqrp@qth.net>
Date: Wed, 19 Dec 2001 10:26:26 -0500
Subject: [NoGaQRP] Another kit
Message-ID: <028f01c188a1\$86a5a780\$d8eb5b0c@default>

Tube are interesting as proven by the interest shown. The North Georgia QRO club (NoGa) will be soon making another limited offering of their "Twin Tube 80" transmitter as featured in QQ October 2000. This will be announced in

January.

Mike Branca W3IRZ in Conyers Georgia

The finished products look good and sound good.

73

Ray

Plan ahead. It wasn't raining when Noah built the ark.

Ray Colbert,W5XE,00TC#3618, SOWP#1064M,

NARTE-NCT2r SOC#78 qrp-arc15784 --

El Paso (Far West), Texas

Date: Wed, 19 Dec 2001 16:10:01 +0000
From: Garie Halstead <k8kfj@ntelos.net>
To: Dave =?iso-8859-1?Q?N=D8IT?= <sjolin@swbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115294] Re: Fox: Tnx to all for Tonights Cub Fox Hunt
Message-ID: <3C207589.74491868@ntelos.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Dave....

Would have liked to have been one of the lucky hounds last night but it was not to be. It was as if I had no propagation in your direction. Perhaps I had the vertical pointed incorrectly. :-) We all know 40m can be very squirrely at times (and it was up to it's old tricks again last night).

I heard lots of hounds with very nice signals working you. WA9TZE was 20db over S9 here. I know they appreciated the great job you did in giving out pelts. Congrats!! Maybe I'll catch ya next time.

72 //Gary *K8KFJ*

Date: Wed, 19 Dec 2001 11:35:08 -0500
From: "W3CDE Jerry L." <w3cde@bellsouth.net>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115295] Tube messages Time to learn

Message-ID: <3C20C1BC.4F6560B4@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gee.... If you have not drawn the conclusion that , first there were smoke signals, then spark gap, then tubes, then nuvistors and recently transistors, it's time to crack open the ARRL handbook. Tubes (glow in teh dark technology) and hollow state ruled the earth for many! years. Rather than bash it, it's time to learn about it. It's much more forgiving than transistors!! If the plate glows a little red, you can say "oooops..." and start again...

However, if you wnat to live in a hole... so be it.

Jerry
W3CDE

Date: Wed, 19 Dec 2001 11:44:40 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: Paul Barlow <paul_barlow@compuserve.com>
Cc: GQRP@yahoogroups.com
Subject: [115296] Re: [GQRP] SSB kits
Message-ID: <20011219112404.W55588-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I love that NeedleCraft Comment. AH! So that's what you put on the Check to get it past the XYL? :^}

I am also Curious about the VAT Charges and Shipping. What were they for The K2? I was also wondering about the VAT and or Customs Duty on a "USED K2".

Like if I was to build one and Bring it to U.K. for a Friend and or Sell one to A G-QRPper at Dayton to bring home with him.

I believe that Tony or one of the other lads here mentioned a website that gave details on the "Correct Wording" for the Customs Certificates to Make it Free or Very Low for Radio Equipment and Parts. Maybe a Kit that had only been Partly Completed. :^} Would that Qualify as Both Used and Parts?

I was also just thinking, Maybe ELECRAFT could Come up with a K3 Kit for

SSB/CW, 4 Bands, Built in Keyer and Speech Processor, Something Specifically for that New U.K. Novice.

Maybe they Can Offer A SSB Option for the K1?

OH Yes, and PSK31 while they are at it :^}

I have plans to get a K1 Myself in 2002. I was hoping for Santa To Bring one, But I don't think She Can Afford it this year. :^}

Sure would make a Great little Vacation Rig. (It Will Fit in the Glove Compartment). :^}

I should Measure the Console Compartment. That would be real Handy Mobile.

That's it a K3 for Mobile QRP. :^}

Merry Christmas and Happy HJoliday Season to All.

Here's Hoping that Santa Brings lot's of QRP Toys...

Sir George, The First :^}

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Commercial Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

On Wed, 19 Dec 2001, Paul Barlow wrote:

> Dear Jon, and anyone else who likes the smell of burning flux,
>
> I have just finished a "basic" K2, it was an excellent project to build, I
> don't have the SSB option (yet), but it seems a FB CW rig. If you want to

> build one as an SSB rig then it would be quite pricey, because you have to
> add the cost of getting the kit to the UK and VAT to the price you pay
> Elecraft.
>
> Although I have never used an SGC 2020 I understand that it works very well
> on QRP SSB, but it is held to have shortcomings in the CW RX department as
> it doesn't, I believe, have a narrow IF filter, but uses filtering at audio
> only. (This is hearsay only)
>
> The Ten Tec rig advertised on the list would be a nice option I think, but
> I'm not an expert there either.
>
> If you wanted to build a single band SSB transceiver kit then Small Wonder
> Labs (www.smallwonderlabs.com) do a single board rig called the White
> Mountain. I built the WM20 20m version (can you see there may be a bit of a
> kit building obsession problem here ;)). It's a very nice little kit, and if
> you buy the enclosure as well you also get a PIC based audio frequency
> readout (in CW, good practice for your numbers!). You also have to add a
> speaker mike.
>
> I'm not a great SSB person, but I did work VK with my WM20, so it can be
> done. It puts out about 4W PEP, it doesn't have a speech processor, although
> one might be added I suppose.
>
> As has been mentioned, most HF rigs will turn down to 10W, so you could buy
> most anything second-hand. But there is definite satisfaction in building
> something yourself.
>
> All good wishes for Christmas and the New Year.
>
> 72/73
>
> Paul M0CDP GQRP 10289 Fists 5579
>
> P.S. My spell check suggests "Needlecraft" for "Elecraft" - well I thought
> it was funny.
>
>
>
> === Via the mailing list of the GQRP Club www.gqrp.com ===
>
> Your use of Yahoo! Groups is subject to <http://docs.yahoo.com/info/terms/>
>
>

Date: Wed, 19 Dec 2001 16:44:53
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: jfurman@ocs.net
Cc: leon_heller@hotmail.com, MertNellis@aol.com,
WD8CIV@worldnet.att.net, qrp-1@lehigh.edu
Subject: [115297] Re: [SPICE] Tapped Air Inductors
Message-ID: <F194ztws7rBPq6xJa4X00009c53@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Jeff Furman <jfurman@ocs.net>

>Hi,Brad,

>

>I analyzed successively more complicated cases of L-C networks to try to
>develop some intuition:

[....]

>these formulas don't make any assumptions except

>

> $L_t = L_1 + L_2 + 2M$

>

> and

>

> $(k^2) = (M^2)/(L_1 L_2)$

>

[...]

Jeff,

Thanks profusely for your additional analysis and input. What appears to me from these equations is that one is still left with the problem of assigning L_1 and L_2 and M . Assigning any one of these values automatically determines the values of the others (assuming that we know the inductance L_t).

Notwithstanding the deficiencies in SPICE or failure to include parasitic capacitances, conductor resistances, &c., the general consensus has been that the assumption that $K=1$ is unrealistic in an air inductor. Furthermore, it has been suggested that Wheeler's formula should be used to assign the L_1 and L_2 values (which automatically yields an K that is less than 1 and within the realm of possibility). However, it is not clear that Wheeler's empirical formula is valid in such a proximal coupled system. My conjecture is that $K=1$ is valid in a resonant tapped coil if the magnetic field produced by the resonating coil encompasses the entire coil. Wheeler's formula should be sufficient for predicting the value of L_t and L_1 and L_2 are assigned by the $K=1$ assumption.

The fact that there appears to be possible multiple resonant modes in the tapped system introduces a further complication. Might there be a situation

where the magnetic field, at one resonant frequency, encompasses the entire coil and at the other resonant frequency predominates across one section of the coil (and cutting some turns of the other)? Hypothetically, this could lead to a situation where M is a function of frequency and thus the L1 and L2 terms are similarly not constant (although Lt would be constant). If that were the case then the simulations would need to be much more complicated indeed.

I think that it is time to do some more experiments.

Brad

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<http://www.hotmail.com>

Date: Wed, 19 Dec 2001 11:42:00 -0500
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <w3cde@bellsouth.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [115298] Re: Tube messages Time to learn
Message-ID: <001f01c188ac\$16f39860\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's not just that tubes are old and neat, but the 'mindset' is different.

Tubes were basically high impedance voltage devices.

Transistors are basically low impedance current devices.

Until FETs came along.

Now with FETs and similar devices, we have to get back into a high impedance voltage device mindset. No, we don't need 800v supplies and 10 amp heaters, but at least some of the 'flavors' of how circuits work have come full circle.

So to most HAMS that are into the bipolar transistor stuff, tubes are both ancient and modern. Even if you don't ever care to use one, they are still neat to figure out how they worked.

Mike

Date: Wed, 19 Dec 2001 12:03:36 -0500 (EST)
From: wb0wao@hotmail.com (Dennis Ponsness)
To: qrp-1@Lehigh.EDU
Subject: [115299] Tubes, QRP, and CW
Message-ID: <26917-3C20C868-464@storefull-267.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Okay, for what it is worth, this is my .02 cents worth....

Yep, tubes are outdated technology - no question there, but so is CW. Terribly inefficient mode. Requires lots of training and dedication to become proficient. And while we are at it, QRP is also inefficient at times. But we love doing CW, we love QRP and (some of us) love tubes. But guess what, we do all this stuff because WE LIKE TOO. No explanation required, no apologies needed, it is what we enjoy. So, allow us to enjoy what we like to do, ok?

BTW, I have built a 2N2 and I love it! Works great. But hey, that is outdated technology as well! So enjoy building it, and if you have any questions about doing so, please feel free to ask me!

72 es oo

Dennis - WB0WAO

p.s. - My next project - 2 tube TX on 40m!!!

Date: Wed, 19 Dec 2001 12:09:28 -0500
From: "AI2Q Alex" <ai2q@adelphia.net>
To: <myetsko@insydesw.com>,
 "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [115300] RE: Tube messages Time to learn
Message-ID: <000001c188af\$eba814c0\$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Encountering some defective 28-V unobtainium mixer tubes in an R-392 receiver repair recently, I used a Dremel tool cutter to scribe the glass of 7-pin miniature tubes, cracking them open and removing the innards. I then soldered JFETs with drain source and gate connected to the old plate, cathode, and grid leads, respectively. After inserting a label with my callsign on it, I then glued the glass envelopes closed. I popped 'em into the ol' R-392, where these solid-state jobbies perform flawlessly.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Mike Yetzko
Sent: Wednesday, December 19, 2001 11:42 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Tube messages Time to learn

It's not just that tubes are old and neat, but the 'mindset' is different.

Tubes were basically high impedance voltage devices.

Transistors are basically low impedance current devices.

Until FETs came along.

Now with FETs and similar devices, we have to get back into a high impedance voltage device mindset. No, we don't need 800v supplies and 10 amp heaters, but at least some of the 'flavors' of how circuits work have come full circle.

So to most HAMS that are into the bipolar transistor stuff, tubes are both ancient and modern. Even if you don't ever care to use one, they are still neat to figure out how they worked.

Mike

Date: Wed, 19 Dec 2001 09:18:51 -0500
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>, <mgilger@brightds1.net>

Subject: [115301] Nukes (was RE: Tube messages)
Message-ID: <NFBBKLDHALEHCJMAJPKFOEFGCHAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I've been told if we get into some nuclear exchange the EMP generated will wipe out most of the solid state rigs. Seems prudent for a few of us to keep up with 'glass' technology just in case the terrorists manage to pop one off.

Another thought, guitar amplifier companies are going back to glass because of their excellent audio qualities. Seems they can't do with solid state what they can do with glass. Wonder how that kind of efficiency can be leveraged in a receiver or transmitter.

A friend of mine in FL makes tube receivers that are unbelievably sensitive. Regenerative superhets, he calls them. He uses a regenerative design as the detector, behind a conversion scheme. Interesting huh?

Glass is cool
Tracy N4LGH

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Mark Gilger
Sent: Tuesday, December 18, 2001 11:06 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Tube messages

There is a whole other world out there that your missing out on. Tubes are staging a come back and there are lots of QRP designs. So lets keep an open mind. This reflector is for QRP. That does not mean transistors.

Mark, wb0iqk

At 07:41 PM 12/18/2001 -0700, Karl F. Larsen wrote:

> I fail to see what finding a 4cx-1000 has to do with QRP. I also
> am a little tired of seeing excited messages about getting a 12au7 going
> on 40 meters.

>

> Of the two the 12au7 is at least QRP. But gezzzz those days are
> over and life is so much nicer now. My FT-817 has a push-pull final amp of
> 2 transistors. That is interesting since it has a clean crisp signal just

>like my Ten Tec Argonaut, which has a push-pull final.
>
> I'm building for pleasure a 2N2 40 meter CW rig with nothing but
>2n2222 transistors in it! But it will have one change by me. The final amp
>of the transmitter is 3 2n2222 but I am going to use 2 Radio Shack FET's
>in push-pull. With 12 volts I expect to get 12 watts out or more. Good
>clean CW. The rig has a power control and I will turn it down to 5 watts.
>I will have VERY low even harmonics.
>
>--
>Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
> <http://www.zianet.com/k5di/>

[]
Mark Gilger, WB0IQK
Phone 330-658-5035
Fax 330-658-5036

Date: Wed, 19 Dec 2001 11:18:51 -0600
From: "George, W5YR" <w5yr@att.net>
To: tracy@bytemark.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [115302] Re: Nukes (was RE: Tube messages)
Message-ID: <3C20CBFB.5C7ADA0E@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tracy, in the 30's the Philco company made a broadcast receiver that used
regeneration in the IF to obtain some "free" gain without having to put in
another tube, etc. They used to be a beast to service because that
regeneration all too often wanted to be oscillation! <:}

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

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Tracy Markham wrote:

> A friend of mine in FL makes tube receivers that are unbelievably sensitive.
> Regenerative superhets, he calls them. He uses a regenerative design as the
> detector, behind a conversion scheme. Interesting huh?

Date: Wed, 19 Dec 2001 11:23:10 -0600
From: "George, W5YR" <w5yr@att.net>
To: ai2q@adelphia.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [115303] Re: Tube messages Time to learn
Message-ID: <3C20CCFE.C8F5FAE4@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

BAck in the 70's W5DA made a line of tube replacements using various semiconductor devices. They were rather widely used in the Drake Twins as I recall.

During WW2 we made tube adaptors much as you did by removing the glass/metal shell and the innards and soldering a new socket to the old tube base. The wiring was such that a replacement tube with different socket wiring could be substituted.

Glad to see that innovation lives on! <:}

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AI2Q Alex wrote:

>
> Encountering some defective 28-V unobtainium mixer tubes in an R-392
> receiver repair recently, I used a Dremel tool cutter to scribe the glass of
> 7-pin miniature tubes, cracking them open and removing the innards. I then
> soldered JFETs with drain source and gate connected to the old plate,
> cathode, and grid leads, respectively. After inserting a label with my
> callsign on it, I then glued the glass envelopes closed. I popped 'em into
> the ol' R-392, where these solid-state jobbies perform flawlessly.

Date: Wed, 19 Dec 2001 12:25:18 -0500 (EST)
From: wb0wao@hotmail.com (Dennis Ponsness)
To: tracy@bytemark.com
Cc: qrp-1@Lehigh.EDU (Low Power Amateur Radio Discussion)
Subject: [115304] Re: Nukes (was RE: Tube messages)
Message-ID: <26919-3C20CD7E-285@storefull-267.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Very good point Tracy! I didnt think of that. Might be prudent as well to get "spares" of all the semiconductors in your favorite rig(s) and put them in a EMP protected box or enclosure of some type! That way, if the unthinkable does happen, you can replace the fried components and be back QRV.

Now, does anyone know of a good, easy and inexpensive way to shield the "spares"?

72

Dennis - WB0WAO

Date: Wed, 19 Dec 2001 17:30:18
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [115305] Re: Tubes, QRP, and CW
Message-ID: <F248gC81TbdkSmLAztx00009d32@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Yeah, I mean, hey, if you want to get picky, half of the list needs to get with the times and get off the "through hole" kick. What is it with you geezers? Surface mount all the way!!

: -)

Brad

P.S. I've got some subminiature tubes (filaments run off only 0.6V or so) that I am contemplating using to build an SMD solar powered regen. Now that

should break all the "rules".

Dennis Ponsness (wb0wao@hotmail.com) wrote:

>Okay, for what it is worth, this is my .02 cents worth....

>Yep, tubes are outdated technology - no question there, but so is CW.
>Terribly inefficient mode. Requires lots of training and dedication to
>become proficient. And while we are at it, QRP is also inefficient at
>times. But we love doing CW, we love QRP and (some of us) love tubes.
>But guess what, we do all this stuff because WE LIKE TOO. No
>explanation required, no apologies needed, it is what we enjoy. So,
>allow us to enjoy what we like to do, ok?

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Date: Wed, 19 Dec 2001 12:28:44 -0500
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <ai2q@adelphia.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [115306] Re: Tube messages Time to learn
Message-ID: <001901c188b2\$a4292280\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

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> cathode, and grid leads, respectively. After inserting a label with my
> callsign on it, I then glued the glass envelopes closed. I popped 'em
into
> the ol' R-392, where these solid-state jobbies perform flawlessly.
>
> Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

I know for a while RCA had a line of 'solid state tubes'. Some were
direct plug in, and others were 'mod in'. The mod in you had to do things
like change the filament feed and maybe some other minor tricks, but the
main part of the 'tube amplifier' circuit was equivalent. I'm not sure if

it

was RCA that built the true dropins, the ones that even loaded the heater lines so they would work in a circuit where the tube heater might be in series with other tubes.

Mike

Date: Wed, 19 Dec 2001 12:25:38 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <tracy@bytemark.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [115307] Re: Nukes (was RE: Tube messages)
Message-ID: <001801c188b2\$a3fe6900\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

> I've been told if we get into some nuclear exchange the EMP generated
will
> wipe out most of the solid state rigs. Seems prudent for a few of us to
keep
> up with 'glass' technology just in case the terrorists manage to pop one
> off.

True enough. One of the 'tactics' the Soviets evidently had in their
'play book' was to explode a BIG one over the US. Many miles
high. It wouldn't do much 'mechanical' damage on the ground, but
when you have a burst that high with little conversion to mechanical
energy (ie a shock wave) teh EMP is excessive. And there's even
ways to enhance it. There were some projections that you could
take out car alternators (by burning out the diode packs) at a distance
of MANY HUNDREDS of miles. And this was in the 60's before
consumer stuff became much more sensistive to EMP.

But how much of the 'tube' equipment is really 100% tube. My old
Swan 500c has transistors. And I'm sure a lot of the stuff out there
from the late 60s forward would too. So I really don't think EMP
is a valid arguement, even if the old Soviet 'evil empire' was still
around.

> Another thought, guitar ampliflier companies are going back to glass
because

> of their excellent audio qualities. Seems they can't do with solid state
> what they can do with glass. Wonder how that kind of efficiency can be
> leveraged in a receiver or transmitter.

Well, no. This is just plain wrong. Guitar amplifier companies use tubes because they offer a specific sound. Not better, not worse (although from a purely technical standpoint VERY worse), but really a specific and different sound that you get with tubes. Sure, you could get the same sound with solid state, but you'd have to start with some very clean and sophisticated solid state, and then add some very complex circuits to make them sound like a tube, and pass critical ear muster. Easier to just do a tube in the first place.

> A friend of mine in FL makes tube receivers that are unbelievably sensitive.
> Regenerative superhets, he calls them. He uses a regenerative design as the
> detector, behind a conversion scheme. Interesting huh?
>
> Glass is cool
> Tracy N4LGH

Tubes definitely are cool. But the key is they are different. And ACT differently when pushed to limits. They are also a very mature technology.
Transistors are no way near as 'mature'.

Mike

Date: Wed, 19 Dec 2001 09:39:47 -0800
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: <k5di@zianet.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [115308] Re: Tube messages
Message-ID: <002601c188b4\$27e08180\$b19ab2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Karl and All,

Tubes are older technology, but to many on the group it's new, and It's

kind of refreshing to see an interest in tube technology on the list. At least it's not a flame war. I wonder if anyone is interested in possibly building QRP AM gear to try out? Works great on 10 meters. BTW for those that may be interested, but are looking for kits, Ocean State Electronics stocks several Cake Pan style tube TX Kits.

Speaking of tubes, I pulled out my old Heathkit SB-100 that I got about a year ago in TX. It hasn't worked since I bought it, and I decided that it might be fun to get it going and use for SKN. It probably has better keying than a single tube job, and I think that I can get it down to 5 watts out by lowering the drive to the finals (pair of 6146's) or lowering the screen voltage to the finals. I got the RX section working last night, and it works pretty good, and seems to be fairly accurate frequency wise. Plus, the fun part is that this rig, while it wasn't my Novice rig (I had an HW-8), was the Novice rig of a friend of mine that we had to do quite a bit of work on to get going. Kind of like revisiting the Novice years Hi!

72/73's
Trev
KG6CYN

----- Original Message -----

From: Karl F. Larsen <k5di@zianet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, December 18, 2001 6:41 PM
Subject: Tube messages

>
> I fail to see what finding a 4cx-1000 has to do with QRP. I also
> am a little tired of seeing excited messages about getting a 12au7
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>
> --
> Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
> <http://www.zianet.com/k5di/>
>
>

Date: Wed, 19 Dec 2001 13:09:01 -0500
From: "W3CDE Jerry L." <w3cde@bellsouth.net>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [115309] Re: Tubes, QRP, and CW
Message-ID: <3C20D7BD.51EC786A@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Brad,

Don't forget that the holes move, not the electrons... 8-) in
transistors. I like hot electrons to keep me warm on a cold
winters night...

Jerry
W3CDE

Brad Hernlem wrote:

>
> Yeah, I mean, hey, if you want to get picky, half of the list needs to get
> with the times and get off the "through hole" kick. What is it with you
> geezers? Surface mount all the way!!
>
> :-)
>
> Brad
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> >But guess what, we do all this stuff because WE LIKE TOO. No
> >explanation required, no apologies needed, it is what we enjoy. So,
> >allow us to enjoy what we like to do, ok?
>
>
> -----
> Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>.

Date: Wed, 19 Dec 2001 13:49:10 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [115310] Re: Nukes (was RE: Tube messages)
Message-ID: <5.1.0.14.1.20011219132858.00a60dd0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:18 AM 12/19/2001 -0500, you wrote:

>I've been told if we get into some nuclear exchange the EMP generated will
>wipe out most of the solid state rigs. Seems prudent for a few of us to keep
>up with 'glass' technology just in case the terrorists manage to pop one
>off.

Tracy,

Unfortunately, the power in most areas is controlled by systems that use
semiconductors. Unless you have a boatload of batteries, your glass gear
won't have any juice to run from.

>Another thought, guitar amplifier companies are going back to glass because
>of their excellent audio qualities.

I wouldn't call them 'excellent' qualities - I think 'unique' is a better
word. The fact is, popular guitar amplifiers would be lousy for playing CDs
through. But most people that express a preference prefer the way a
"proper" tube amp colors the sound of the guitar.

Tubes do behave differently, especially when distorting a signal. There are

some so-called "modeling amps" that use DSP to simulate the behavior of popular tube amps. (These must be followed by a high-fidelity power amplifier, BTW, not a guitar amp.) But purists claim they can still tell the difference, and I believe them.

> Seems they can't do with solid state
>what they can do with glass. Wonder how that kind of efficiency can be
>leveraged in a receiver or transmitter.

The fact that tubes are still desired by musicians means they're still available, but it hasn't really done anything for the price. Musicians are willing to pay premium prices for premium sound. (Many don't know that the 12AX7 preamp they just paid \$8 for could have been had at a hamfest for a buck.)

>A friend of mine in FL makes tube receivers that are unbelievably sensitive.
>Regenerative superhets, he calls them. He uses a regenerative design as the
>detector, behind a conversion scheme. Interesting huh?

Sounds like a good idea, as long as you can control the regeneration.

>Glass is cool

Not if you're using it right! (Grin)

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Wed, 19 Dec 2001 13:51:09 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [115311] Re: Nukes (was RE: Tube messages)
Message-ID: <5.1.0.14.1.20011219135003.00a6aec0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:25 PM 12/19/2001 -0500, you wrote:

>Now, does anyone know of a good, easy and inexpensive way to shield the
>"spares"?

A copper-clad lead coffin buried 50 feet down in iron ore would probably do it.

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Wed, 19 Dec 2001 12:53:22 -0600
From: George Franklin <w0av@juno.com>
To: w5yr@att.net
Cc: qrp-l@Lehigh.EDU
Subject: [115312] Re: Toobs, valves, etc.
Message-ID: <20011219.125322.-1672199.2.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi George and all,

Remember how neat it was to add a "gimmick" capacitor from plate to grid on the IF tube in a WW2 Command receiver and a pot from cathode to ground to sharpen up those old broad IF's?

Worked like a charm and was called "the poor man's crystal filter."

Not quite up to Collins mechanical filter standards, but much cheaper.

72 de George/W0AV
COG#1, SOC#101
Hamming since '35

Date: Wed, 19 Dec 2001 12:57:45 -0600
From: George Franklin <w0av@juno.com>
To: ai2q@adelphia.net
Cc: qrp-l@Lehigh.EDU
Subject: [115313] Re: Tube messages Time to learn
Message-ID: <20011219.125746.-1672199.3.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Alex,

Always wanted to try that but never did.

Are you saying that you applied the full B+ (250VDC or so) to the FET's?

I didn't think the R-392 used 28V on the plates of the tubes.

It seemed to me that they had a dynamotor PS, but maybe I am (more than usually) confused.

Very interesting, thanks for posting the info.

72 de George/W0AV
Hamming since '35

Date: Wed, 19 Dec 2001 11:00:54 -0800 (PST)
From: Michael Fletcher <kl7ixi@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [115314] Re: Nukes (was RE: Tube messages)
Message-ID: <20011219190054.91008.qmail@web10207.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

That's what I have a classic BC-348 for. But now to find a generator set that doesn't have a solid-state ignition.

There was a novel called "EMP" where a number of Nukes were simultaneously set off in orbit, taking out all computers, banking, etc. Food for thought.

When I was in the Army Security Agency (Radio Research anyone?), we used from firebase bunkers the same Chicom radios that the Viet Cong used, to copy the VC cut number communications. Nothing fancy but the glow bugs worked FB.

72,
Mike KL7IXI/7
ex-AB8AQ MARS Op

Do You Yahoo!?
Check out Yahoo! Shopping and Yahoo! Auctions for all of your unique holiday gifts! Buy at <http://shopping.yahoo.com> or bid at <http://auctions.yahoo.com>

Date: Wed, 19 Dec 2001 13:28:11 -0600
From: "Rob Matherly" <kc0bom@arrl.net>
To: <tracy@bytemark.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115315] Re: Nukes (was RE: Tube messages)
Message-ID: <008601c188c3\$4e153ee0\$6a11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

It's actually a proven fact that vacuum tube based audio systems are MUCH better sounding than transistorized deals. AAMOF, Stereo amps with tubes are the "in thing" now.

72/73/oo

Rob, kc0bom

ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPP-I #19

Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 MSN - jimrob@jetnetinc.net

----- Original Message -----

From: Tracy Markham <tracy@bytemark.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Wednesday, December 19, 2001 8:18 AM
Subject: Nukes (was RE: Tube messages)

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Glass is cool

Tracy N4LGH

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Mark Gilger

Sent: Tuesday, December 18, 2001 11:06 PM

To: Low Power Amateur Radio Discussion

Subject: Re: Tube messages

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Mark, wb0iqk

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>Yours Truly,

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> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

> <http://www.zianet.com/k5di/>

[]

Mark Gilger, WB0IQK

Phone 330-658-5035

Fax 330-658-5036

Date: Wed, 19 Dec 2001 13:31:51 -0600
From: "Rob Matherly" <kc0bom@arrl.net>
To: <fxtech@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115316] Re: Tube messages
Message-ID: <009d01c188c3\$d071be40\$6a11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

An AM rig? Dang, why didn't I think of that before now!!!! I'd love to try something like that! My Drake TR-3 transmits am, but I have to listen in SSB so I don't even bother with it. It wouldn't sound any different to me! :^D I've heard that AM has great fidelity, so I've always wanted to give it a shot

72/73/oo
Rob, kc0bom
ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPP-I #19

Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 MSN - jimrob@jetnetinc.net

----- Original Message -----
From: Trevor Jacobs <fxtech@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Wednesday, December 19, 2001 11:39 AM
Subject: Re: Tube messages

Hi Karl and All,

Tubes are older technology, but to many on the group it's new, and It's kind of refreshing to see an interest in tube technology on the list. At least it's not a flame war. I wonder if anyone is interested in possibly building QRP AM gear to try out? Works great on 10 meters. BTW for those that may be interested, but are looking for kits, Ocean State Electronics stocks several Cake Pan style tube TX Kits.

Speaking of tubes, I pulled out my old Heathkit SB-100 that I got about a year ago in TX. It hasn't worked since I bought it, and I decided that

it might be fun to get it going and use for SKN. It probably has better keying than a single tube job, and I think that I can get it down to 5 watts out by lowering the drive to the finals (pair of 6146's) or lowering the screen voltage to the finals. I got the RX section working last night, and it works pretty good, and seems to be fairly accurate frequency wise. Plus, the fun part is that this rig, while it wasn't my Novice rig (I had an HW-8), was the Novice rig of a friend of mine that we had to do quite a bit of work on to get going. Kind of like revisiting the Novice years Hi!

72/73's

Trev

KG6CYN

----- Original Message -----

From: Karl F. Larsen <k5di@zianet.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Tuesday, December 18, 2001 6:41 PM

Subject: Tube messages

>

> I fail to see what finding a 4cx-1000 has to do with QRP. I also
> am a little tired of seeing excited messages about getting a 12au7
going

> on 40 meters.

>

> Of the two the 12au7 is at least QRP. But gezzzz those days are
> over and life is so much nicer now. My FT-817 has a push-pull final
amp of

> 2 transistors. That is interesting since it has a clean crisp signal
just

> like my Ten Tec Argonaut, which has a push-pull final.

>

> I'm building for pleasure a 2N2 40 meter CW rig with nothing but

> 2n2222 transistors in it! But it will have one change by me. The final
amp

> of the transmitter is 3 2n2222 but I am going to use 2 Radio Shack
FET's

> in push-pull. With 12 volts I expect to get 12 watts out or more. Good
> clean CW. The rig has a power control and I will turn it down to 5
watts.

> I will have VERY low even harmonics.

>

> --

> Yours Truly,

>

> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

> <http://www.zianet.com/k5di/>
>
>

Date: Wed, 19 Dec 2001 14:38:51 -0500
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>, ". NJ QRP-L" <njqrp@njqrp.org>
Subject: [115317] Sale = The 3rd Annual QRP Contest Calendar for 2002
Message-ID: <001901c188c4\$c9ff3dc0\$6dad5cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The Eastern PA QRP Club is selling the 3rd Annual QRP Contest Calendar for 2002. This color picture calendar has an Appalachian Trail theme.

The calendar will list all QRP contests and contests with QRP categories. It will be a fold out style that you can hang on your wall next to your rig. There is Web site and Contest Manager listings.

The calendar is being mailed out now. The cost will be \$13.50 for US and \$15.50 for DX. This will include the shipping cost.

For more information please check www.n3epa.org .

72 & 73
Good DXing

Ron Polityka
n3epa@fast.net

v v v Eastern Pennsylvania QRP Web Page v v v
<http://www.n3epa.org>

Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@fast.net

Date: Wed, 19 Dec 2001 14:34:34 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <kc0bom@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [115318] Re: Nukes (was RE: Tube messages)
Message-ID: <000f01c188c4\$421933c0\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

> It's actually a proven fact that vacuum tube based audio systems are
> MUCH better sounding than transistorized deals. AAMOF, Stereo
> amps with tubes are the "in thing" now.

No, that's not correct.

All that's been 'proven' is that some people PREFER the sound of a tube amp over the sound of a transistor amp under certain conditions.

>From the standpoint of accurate signal reproduction with amplification, tubes stink. However, from the standpoint of outside objectionable aberrations to the signal introduced by the amplification process, tubes have an edge over transistors. And it is VERY debatable as to how much of that edge is from the design principles. Some of the mosfet and power VFET transistor amps have pushed the envelope even further, since they generally use the same design 'flavor' as tubes. Ie voltage designs with low feedback and low damping.

There was one interesting experiment a number of years ago, about 1980 I think, done by Hirsch Houck (if I remember correctly) where they took a top line design bipolar amp. They drove it so that it was WELL below anything that could introduce any aberrations of the signal (tubes DO win big there, as when they distort, they 'distort in' gradually, and with distortion characteristics that some people even find desirable where transistors are a 'hard edge' to the distortion and come in with very objectionable byproducts) and they ADDED some hum and hiss and even a tad of even order harmonic distortion, and almost everyone preferred 'that' in blind test. And most thought it was a tube amp!

Mike

Date: Wed, 19 Dec 2001 13:44:52 -0600
From: Ed Manuel <edmanuel@directvineternet.com>

To: qrp-1@lehigh.edu
Subject: [115319] AM: Was Tube messages
Message-ID: <4.3.2.7.2.20011219134248.00b65df0@mail.directvinternet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Ah ha. AM you say. Well, funny thing about that. The FT-817 does that too.

Ed, N5EM

At 01:31 PM 12/19/01 -0600, you wrote:

>An AM rig? Dang, why didn't I think of that before now!!!! I'd love to try
>something like that! My Drake TR-3 transmits am, but I have to listen in
>SSB so I don't even bother with it. It wouldn't sound any different to me!
>:^D I've heard that AM has great fidelity, so I've always wanted to give
>it a shot
>
>72/73/oo
>Rob, kc0bom

Ed Manuel, N5EM Houston, TX (Harris Co.) EL29
Houston QRP Club, Houston Amateur Television Society
<http://www.n5em.com/> n5em@amsat.org

Date: Wed, 19 Dec 2001 13:47:35 -0600
From: "Stuart Rohre" <rohrer@arlut.utexas.edu>
To: "Charles Greene" <W1CG@qsl.net>
Cc: <qrp-1@Lehigh.EDU>
Subject: [115320] Re: [Elecraft] Thermeleze insulated wire
Message-ID: <000d01c188c6\$01a09d90\$4e100a0a@rohredt2000>

Try the distributors like Newark and Allied, and maybe Digi Key and Mouser.
Also, did you try a <google.com> web search? Go there, enter "thermaleeze
magnet wire" and see what you get as vendors, and vendors web pages should
have a distributor and rep. list for each region or state.

72,
Stuart K5KVH

Date: Wed, 19 Dec 2001 14:49:59 -0500
From: W2AGN <w2agn@pobox.com>
To: njqrp@njqrp.org, "Ron Polityka" <wb3aal@fast.net>
Cc: qrp-l@lehigh.edu
Subject: [115321] Re: [NJQRP] Sale = The 3rd Annual QRP Contest Calendar for 2002
Message-ID: <0112191449590J.08524@njbirdman>
Content-Type: text/plain;
 charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Wednesday 19 December 2001 14:38, Ron Polityka wrote:
> The Eastern PA QRP Club is selling the 3rd Annual QRP Contest Calendar for
> 2002. This color picture calendar has an Appalachian Trail theme.

--

I just received mine, and it is another work of art. I have gotten one the
past 3 years, and it is my only shack calendar. Highly recommended!

 John L Sielke W2AGN
 w2agn@pobox.com
 http://www.qsl.net/w2agn

Date: Wed, 19 Dec 2001 14:55:24 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-l@lehigh.edu
Subject: [115322] Re: Nukes (was RE: Tube messages)
Message-ID: <5.0.2.1.2.20011219145131.022a4660@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

1959 ARRL Handbook (year I was born), given to me by Mike Branca, W3IRZ
(proud pappa of the NOGA Twin Tube 80*), suggests using regeneration in the
IF to improve selectivity as well...

72 de Mike, K04WX

* <shamelessplugforaclubproject>Described in the NOGA Compendium 2001, see
<http://www.nogaqrp.org></shamelessplugforaclubproject>
Michael C. Boatright

Date: Wed, 19 Dec 2001 15:15:40 -0500
From: "AI2Q Alex" <ai2q@adelphia.net>
To: "'George Franklin'" <w0av@juno.com>
Cc: <qrp-l@Lehigh.EDU>
Subject: [115323] RE: Tube messages Time to learn
Message-ID: <000201c188c9\$eef4a8e0\$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi George:

The R-392 uses a 28-V source, with this low value of B+ for the plates and screens of all the set's tubes.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: George Franklin [mailto:w0av@juno.com]
Sent: Wednesday, December 19, 2001 1:58 PM
To: ai2q@adelphia.net
Cc: qrp-l@Lehigh.EDU
Subject: Re: Tube messages Time to learn

Hi Alex,

Always wanted to try that but never did.

Are you saying that you applied the full B+ (250VDC or so) to the FET's?

I didn't think the R-392 used 28V on the plates of the tubes.

It seemed to me that they had a dynamotor PS, but maybe I am (more than usually) confused.

Very interesting, thanks for posting the info.

72 de George/W0AV
Hamming since '35

Date: Wed, 19 Dec 2001 15:10:30 -0800
From: "Dave Benson" <nn1g@earthlink.net>

To: <qrp-1@lehigh.edu>
Subject: [115324] Hole Punch- a new mystery
Message-ID: <001a01c188e2\$5b50e860\$d2efd73f@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

gang-

Anyone have information on a tool for punching larger holes (like ~1") in light materials like paper or plastic? Chassis punches don't count!

It's QRP-related.

Thanks & 73- Dave Benson, K1SWL

Date: Wed, 19 Dec 2001 15:20:52 -0500
From: "AI2Q Alex" <ai2q@adelphia.net>
To: <thomasr2@gdls.com>
Cc: "QRP-L (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [115325] RE: Tube messages Time to learn
Message-ID: <000301c188ca\$a88bf380\$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Ron:

The miniature glass tubes for the R-392, fitted them with off-the-shelf El Cheapo Radio Shack JFETs (offhand, I think I used MPF-105s or MPF-102s), replace the originals in the set's first- and second IF's 26C6 mixer sockets. There's no noticeable difference in performance than with the original tubes.

As I said, I opened the tubes using a Dremel cutting wheel. I clamped the Dremel motor in a drill-press vise and pointed it so that its rotation would cause any sparks and possible fragments to fly away from me. Of course, I wear shop goggles when doing this.

As I was cutting, I could actually see a point of contact with the glass that was red hot. Apparently the Dremel blade was melting the glass somewhat as it cut. All I can say is that old tubes can be opened up successfully

with a little practice.

I should get ahold of the QST article/s about "solid-stating" tubes. There was an article in the December 1978 article that was written by AA6PY. Does anyone have this article available?

Like yourself, I would also be interested in any other articles about this subject, or about the old Sartori Tubesters.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: thomasr2@gdls.com [mailto:thomasr2@gdls.com]

Sent: Wednesday, December 19, 2001 12:44 PM

To: ai2q@adelphia.net

Subject: RE: Tube messages Time to learn

Alex,

I was intrigued by your post about replacing some tubes in an R392 with FETs. I am interested in doing the same with a couple of my boatanchor receivers. I wonder what types you replaced and what FETs you used. Do you have any other info or source you could suggest that might provide me with enough knowledge to design my own FET replacements for receiver vacuum tubes? I know there were tubesters years ago available for Collins receivers, but I've never been able to find any technical data on how they were made. Any help you could provide would be sincerely appreciated.

Happy Holidays and 73,

Ron N4RT

Date: Wed, 19 Dec 2001 12:36:41 -0800

From: Mark Schoonover <schoon@amgt.com>

To: "'nn1g@earthlink.net'" <nn1g@earthlink.net>,

Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [115326] RE: Hole Punch- a new mystery

Message-ID: <BF889CEBEFD2D511B993009027F60ABE3BC4@AG-JASMINE-NT4>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Try a punch for leather?? You hit it with a hammer....

72 .mark

>> -----Original Message-----
>> From: Dave Benson [mailto:nn1g@earthlink.net]
>> Sent: Wednesday, December 19, 2001 3:11 PM
>> To: Low Power Amateur Radio Discussion
>> Subject: Hole Punch- a new mystery
>>
>>
>> gang-
>>
>> Anyone have information on a tool for punching larger holes
>> (like ~1") in
>> light materials like paper or plastic? Chassis punches don't count!
>>
>> It's QRP-related.
>>
>> Thanks & 73- Dave Benson, K1SWL
>>
>>
>>

Date: Wed, 19 Dec 2001 15:28:34 -0500
From: Dave Fouchey <dafouchey@home.com>
To: edmanuel@directvinternet.com,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115327] Re: AM: Was Tube messages
Message-ID: <4.1.20011219152746.0092ca50@localhost>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

So does my Alinco DX77T, anyone want to give it a go?

Dave
WA4EMR/8

At 01:44 PM 12/19/2001 -0600, Ed Manuel wrote:
>Ah ha. AM you say. Well, funny thing about that. The FT-817 does that too.
>

>Ed, N5EM
>
>
>At 01:31 PM 12/19/01 -0600, you wrote:
>>An AM rig? Dang, why didn't I think of that before now!!!! I'd love to try
>>something like that! My Drake TR-3 transmits am, but I have to listen in
>>SSB so I don't even bother with it. It wouldn't sound any different to me!
>>:^D I've heard that AM has great fidelity, so I've always wanted to give
>>it a shot
>>
>>72/73/oo
>>Rob, kc0bom
>
>Ed Manuel, N5EM Houston, TX (Harris Co.) EL29
>Houston QRP Club, Houston Amateur Television Society
><http://www.n5em.com/> n5em@amsat.org
>
>

Date: Wed, 19 Dec 2001 15:36:47 -0400
From: "Prof. Arnaldo Coro Antich" <inforhc@ip.etcscsa.cu>
To: <ai2q@adelphia.net>
Cc: <qrp-l@lehigh.edu>
Subject: [115328] Re: Tube messages Time to learn
Message-ID: <00f001c188c4\$ea3b31c0\$02000a0a@user>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Dear amigo Alex:
I have a Drake receiver that could benefit
a lot by replacing worn out vacuum tubes
with FET's.
If you find the original articles about this topic
please tell me.
I remember a British magazine that carried
an article on how to adapt a BC455 Command
Set Receiver for using FET's in all the RF
and IF stages, but don't remember the name
of the magazine or the year this was
published. I think that they used a germanium
diode for the detector, and a standard bipolar
transistors audio amplifier module (this was

in the days before the LM380 and LM386's !!!
Seasons Greetings and a Happy and
Prosperous Year 2002
73 and DX
YOur friend in Havana and full time QRP experimenter
Arnie Coro
C02KK

----- Original Message -----

From: "AI2Q Alex" <ai2q@adelphia.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: mi rcoles, 19 de diciembre de 2001 16:20
Subject: RE: Tube messages Time to learn

> Hi Ron:

>

> The miniature glass tubes for the R-392, fitted them with off-the-shelf EI
> Cheapo Radio Shack JFETs (offhand, I think I used MPF-105s or MPF-102s),
> replace the originals in the set's first- and second IF's 26C6 mixer
> sockets. There's no noticeable difference in performance than with the
> original tubes.

>

> As I said, I opened the tubes using a Dremel cutting wheel. I clamped the
> Dremel motor in a drill-press vise and pointed it so that its rotation
would

> cause any sparks and possible fragments to fly away from me. Of course, I
> wear shop goggles when doing this.

>

> As I was cutting, I could actually see a point of contact with the glass
> that was red hot. Apparently the Dremel blade was melting the glass
somewhat

> as it cut. All I can say is that old tubes can be opened up successfully
> with a little practice.

>

> I should get ahold of the QST article/s about "solid-stating" tubes. There
> was an article in the December 1978 article that was written by AA6PY.

Does

> anyone have this article available?

>

> Like yourself, I would also be interested in any other articles about this
> subject, or about the old Sartori Tubesters.

>

> Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

>

>

> -----Original Message-----

> From: thomasr2@gdls.com [mailto:thomasr2@gdls.com]

> Sent: Wednesday, December 19, 2001 12:44 PM

> To: ai2q@adelphia.net
> Subject: RE: Tube messages Time to learn
>
>
>
>
> Alex,
>
> I was intrigued by your post about replacing some tubes in an R392 with
> FETs. I am interested in doing the same with a couple of my boatanchor
> receivers. I wonder what types you replaced and what FETs you used. Do
> you have any other info or source you could suggest that might provide me
> with enough knowledge to design my own FET replacements for receiver
vacuum
> tubes? I know there were tubesters years ago available for Collins
> receivers, but I've never been able to find any technical data on how they
> were made. Any help you could provide would be sincerely appreciated.
>
> Happy Holidays and 73,
>
> Ron N4RT
>
>
>
>

Date: Wed, 19 Dec 2001 12:41:46 -0800 (PST)
From: Michael Fletcher <kl7ixi@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [115329] Re: Hole Punch- a new mystery
Message-ID: <20011219204146.94408.qmail@web10201.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

For the paper, at least, there are circular punches
are as large as 2" in diameter. Also ovals, etc. in
other sizes. See:

<http://www.scrapbookexpress.com/punches.html>

72,

Mike KL7IXI/7

Do You Yahoo!?

Check out Yahoo! Shopping and Yahoo! Auctions for all of
your unique holiday gifts! Buy at <http://shopping.yahoo.com>

or bid at <http://auctions.yahoo.com>

Date: Wed, 19 Dec 2001 15:48:53 -0500
From: hamjoel@juno.com
To: fpqrp-l@mpna.com, qrp-l@lehigh.edu
Subject: [115330] Tubes Tubes
Message-ID: <20011219.154854.-16658001.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

High y'all and u all tubies...

I find it kinda amusing at the fuss about tubes... as like lots of folk... we grew wup with em and AM and all that boat anchor stuff... some of it very cool even by today's standards...

so transistor stuffs is the new kid on our block... whereas it's old hat to knew...

imagine what could happen if old folk and young folk talked to each utter instead of at each utter...

I would think a glow bug would be petty on the christmas tree... good to warm the hands on a cold nite in a tent also...

kella joel
in maine
enjoy u self

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/web/>.

Date: Wed, 19 Dec 2001 20:58:30 +0000 (UTC)
From: Joe Reed <joe@n9jr.dyndns.org>
To: <qrp-l@lehigh.edu>, <elecraft@qth.net>
Subject: [115331] K2 for Sale
Message-ID: <Pine.LNX.4.33.0112192057300.10331-100000@n9jr.dyndns.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Due to divorce I am offering the following K2 for sale.

K2, S/N 1133, has the following options:

KSB2	SSB Module
K160M	160 M + aux RX antenna

KNB2 Noise Blanker
KAT2 Antenna Tuner
KBT2 Internal battery option

Also with a Kenwood MC-43 microphone, and all Elecraft supplied documentation.

Price: \$925 + shipping

Date: Wed, 19 Dec 2001 16:04:53 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [115332] Re: Nukes (was RE: Tube messages)
Message-ID: <5.1.0.14.1.20011219153258.00a60c40@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:34 PM 12/19/2001 -0500, you wrote:

>There was one interesting experiment a number of years ago, about 1980
>I think, done by Hirsch Houck (if I remember correctly) where they
>took a top line design bipolar amp. They drove it so that it was WELL
>below anything that could introduce any aberrations of the signal (tubes
>DO win big there, as when they distort, they 'distort in' gradually, and
>with distortion characteristics that some people even find desirable
>where transistors are a 'hard edge' to the distortion and come in with
>very objectionable byproducts)

Part of the "tube mystique" is the way a tube amp behaves when overdriven to distortion. With most transistor amps, the output signal will move in response to the input signal up to the point that the transistor is either saturated or turned off completely. This gives the classic flat-top appearance that we associate with diode limiters - very sharp corners at the edge of the flattened waveform. This introduces a lot of high-order harmonics and gives an edgy, hissy sound.

When a tube amp is overdriven, the corners where the signal clips are more rounded. The output of the amp stage gradually transitions from the following the original signal to a level voltage. These rounded corners introduce fewer high-order harmonics, while lower-order harmonics remain due to the flattened peak of the signal.

Tube rectifiers are also desired in guitar amplifiers because of the way they saturate. They act like a current source that varies depending on how

much current is being drawn. The heavier the load, the more they'll try to restrict the current - looking like a higher impedance at heavy loads. As the final stage of an amp draws more current (near a signal peak), the tube rectifier starts trying to supply less. This enhances the more rounded transition to clipping I mentioned before. Silicon rectifiers tend to look more like a constant impedance regardless of the load.

A further "enhancement" (if you want to call it that) in guitar amplifiers is the output transformer. Since tubes typically have a plate impedance on the order of thousands of ohms, a transformer converts that to the 4, 8, or 16 ohms that the speaker wants. Audio transformers can be overdriven as well, adding their own distortion, phase shift, and loss at high frequencies.

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Wed, 19 Dec 2001 13:11:01 -0500
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>, <rohre@arlut.utexas.edu>
Subject: [115333] RE: [Elecraft] Thermeleze insulated wire - shameless plug
Message-ID: <NFBBKLDHALEHCJMAJPKFEEFNCHAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You can get Thermoleze wire from CWS ByteMark, Dr. Sevick chose that because of the specific mil thickness of the insulation for transmission line transformers we build.

Tracy Markham, N4LGH
CWS ByteMark
800 679-3184
(Yes, a division of Amidon and ByteMark have merged to become CWS ByteMark)

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
Stuart Rohre
Sent: Wednesday, December 19, 2001 2:48 PM
To: Low Power Amateur Radio Discussion
Subject: Re: [Elecraft] Thermeleze insulated wire

Try the distributors like Newark and Allied, and maybe Digi Key and Mouser. Also, did you try a <google.com> web search? Go there, enter "thermaleeze magnet wire" and see what you get as vendors, and vendors web pages should have a distributor and rep. list for each region or state.

72,

Stuart K5KVH

Date: Wed, 19 Dec 2001 16:11:48 -0500
From: "AI2Q Alex" <ai2q@adelphia.net>
To: <inforhc@ip.etcusa.cu>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [115334] RE: Tube messages Time to learn
Message-ID: <000001c188d1\$c5de30e0\$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks Arnie, and I'll see what I can dig up.

Season's greetings to you, your family, and friends. Let's all work together in 2002 to fix our broken world!

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Prof. Arnaldo Coro Antich
Sent: Wednesday, December 19, 2001 2:37 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Tube messages Time to learn

Dear amigo Alex:

I have a Drake receiver that could benefit a lot by replacing worn out vacuum tubes with FET's.

If you find the original articles about this topic please tell me.

I remember a British magazine that carried

an article on how to adapt a BC455 Command
Set Receiver for using FET's in all the RF
and IF stages, but don't remember the name
of the magazine or the year this was
published. I think that they used a germanium
diode for the detector, and a standard bipolar
transistors audio amplifier module (this was
in the days before the LM380 and LM386's !!!
Seasons Greetings and a Happy and
Prosperous Year 2002
73 and DX
YOur friend in Havana and full time QRP experimenter
Arnie Coro
C02KK

----- Original Message -----

From: "AI2Q Alex" <ai2q@adelphia.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: mi rcoles, 19 de diciembre de 2001 16:20
Subject: RE: Tube messages Time to learn

> Hi Ron:

>

> The miniature glass tubes for the R-392, fitted them with off-the-shelf El
> Cheapo Radio Shack JFETs (offhand, I think I used MPF-105s or MPF-102s),
> replace the originals in the set's first- and second IF's 26C6 mixer
> sockets. There's no noticeable difference in performance than with the
> original tubes.

>

> As I said, I opened the tubes using a Dremel cutting wheel. I clamped the
> Dremel motor in a drill-press vise and pointed it so that its rotation
would

> cause any sparks and possible fragments to fly away from me. Of course, I
> wear shop goggles when doing this.

>

> As I was cutting, I could actually see a point of contact with the glass
> that was red hot. Apparently the Dremel blade was melting the glass
somewhat

> as it cut. All I can say is that old tubes can be opened up successfully
> with a little practice.

>

> I should get ahold of the QST article/s about "solid-stating" tubes. There
> was an article in the December 1978 article that was written by AA6PY.

Does

> anyone have this article available?

>

> Like yourself, I would also be interested in any other articles about this
> subject, or about the old Sartori Tubesters.

>
> Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.
>
>
>
> -----Original Message-----
> From: thomasr2@gdls.com [mailto:thomasr2@gdls.com]
> Sent: Wednesday, December 19, 2001 12:44 PM
> To: ai2q@adelphia.net
> Subject: RE: Tube messages Time to learn
>
>
>
>
> Alex,
>
> I was intrigued by your post about replacing some tubes in an R392 with
> FETs. I am interested in doing the same with a couple of my boatanchor
> receivers. I wonder what types you replaced and what FETs you used. Do
> you have any other info or source you could suggest that might provide me
> with enough knowledge to design my own FET replacements for receiver
vacuum
> tubes? I know there were tubesters years ago available for Collins
> receivers, but I've never been able to find any technical data on how they
> were made. Any help you could provide would be sincerely appreciated.
>
> Happy Holidays and 73,
>
> Ron N4RT
>
>
>
>

Date: Wed, 19 Dec 2001 16:14:24 -0500
From: "AI2Q Alex" <ai2q@adelphia.net>
To: "'David Hinerman'" <WD8CIV@worldnet.att.net>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [115335] RE: Tube messages Time to learn
Message-ID: <000101c188d2\$22e00160\$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Dave:

I just started cutting! There apparently isn't too much vacuum in a tiny tube to cause any implosion of any consequence.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: David Hinerman [mailto:WD8CIV@worldnet.att.net]

Sent: Wednesday, December 19, 2001 4:11 PM

To: ai2q@adelphia.net

Subject: RE: Tube messages Time to learn

At 03:20 PM 12/19/2001 -0500, you wrote:

>As I was cutting, I could actually see a point of contact with the glass
>that was red hot. Apparently the Dremel blade was melting the glass
somewhat
>as it cut. All I can say is that old tubes can be opened up successfully
>with a little practice.

Did you release the vacuum on the tube before you started cutting, or did you just start slicing?

Dave

Dave Hinerman

WD8CIV@worldnet.att.net

Date: Wed, 19 Dec 2001 14:22:31 -0700 (MST)

From: "Karl F. Larsen" <k5di@zianet.com>

To: Rob Matherly <kc0bom@arrl.net>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [115336] Re: Nukes (was RE: Tube messages)

Message-ID: <Pine.LNX.4.33.0112191420570.9694-1000000@Daisy.dog>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

And pray what the heck does audio amps and high power audio

devices have to do with QRP???

On Wed, 19 Dec 2001, Rob Matherly wrote:

> It's actually a proven fact that vacuum tube based audio systems are MUCH

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Wed, 19 Dec 2001 16:27:45 -0500
From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [115337] RE: Nukes (was RE: Tube messages)
Message-ID: <F9351DA9F0F6D41187410090277B3EB304D5F9B5@ev008msxaege.ae.ge.com>

Oh, I enjoy reading the messages concerning this stuff with tubes. I have so little experience with this older technology, but yet it still fascinates me.

Mark, AA4MF

-----Original Message-----
From: Karl F. Larsen [mailto:k5di@zianet.com]
Sent: Wednesday, December 19, 2001 4:23 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Nukes (was RE: Tube messages)

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On Wed, 19 Dec 2001, Rob Matherly wrote:

> It's actually a proven fact that vacuum tube based audio systems are MUCH

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Wed, 19 Dec 2001 16:30:04 -0500
From: W2AGN <w2agn@pobox.com>
To: "Karl F. Larsen" <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115338] Re: Nukes (was RE: Tube messages)
Message-ID: <0112191630040K.08524@njbirdman>
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Wednesday 19 December 2001 16:22, Karl F. Larsen wrote:
> And pray what the heck does audio amps and high power audio
> devices have to do with QRP???
>
> On Wed, 19 Dec 2001, Rob Matherly wrote:
> > It's actually a proven fact that vacuum tube based audio systems are MUCH

--

Well, it's like this. If you have a REAL high power audio amp, then you can hear through LOTS of ear wax.

John L Sielke W2AGN
w2agn@pobox.com
<http://www.qsl.net/w2agn>

Date: Wed, 19 Dec 2001 15:39:34 -0600
From: "Charles" <cvest@hit.net>
To: <qrp-l@lehigh.edu>
Subject: [115339] Re: Nukes (was RE: Tube messages)
Message-ID: <005e01c188d5\$a7835c20\$7b13ecd8@hppav>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I understand high power tube audio amps are effective means of removing ear junk

Date: Wed, 19 Dec 2001 16:36:11 -0500
From: "Howard Kraus" <K2UD@adelphia.net>

To: <kd1jv@moose.ncia.net>
Cc: <qrp-1@Lehigh.EDU>
Subject: [115340] Re: Tube messages
Message-ID: <005d01c188d5\$2d63a080\$07633018@buf.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Steven Weber" <kd1jv@moose.ncia.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, December 19, 2001 12:20 AM
Subject: Re: Tube messages

Those 5763s make a neat QRP xmtr when driven by a 6C4, as in the "Novice Special," and its father, "A Two-Tube Transmitter for the Beginner," from QST (Oct 68) and the 1971 Handbook.

Note: this is QRP, definitely QRP.

Steve, sorry for the BW, but it's the only way I can post to the list (cc'ing that is).

72 all

Howard Kraus, K2UD> Building a tube rig is just as much fun as building a 2N2222 rig. Some
> might say more so. The raw simplicity of a tube transmitter has it own
> unique charm.
>
> I just found I do have a couple of 5763's in the old tube collection.
>
> ...and it is a lot of fun to say "rig hr is Drake 2B and HB tube xmtr"
That
> gets a lot of "WOWS" and I remember when I had...
> 72,
> Steve, KD1JV
> "Melt Solder"
> White Mountians of New Hampshire
> <http://www.qsl.net/kd1jv/>

Date: Wed, 19 Dec 2001 13:37:24 -0800
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: <dafouchey@home.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115341] Re: AM: Was Tube messages
Message-ID: <20011219213725.12047.qmail@earthlink.net>
Content-Type: text/plain; charset="iso-8859-1"
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

AM sounds great! Other than QRP CW it's the other aspect of the hobby that I have become very involved with. High level plate modulation is the way to go to really get the full benefit of AM. The FT-817 does AM OK, and on the recent trip to WI I used it to check in with a group on 14.286. Tim N5DWV in TX was able to hear me pretty good with 1.5 watts of carrier, and let the other guys know that I was using a "Peanut Whistle". I've gotten several of the AM guys interrested in QRP work, and a lot of them already were. Plus there are a lot of guys building small low power AM transmitters to play with. A good source of info is the "AM Window" found at:

<http://www.thebizlink.com/am/>

Look under the technical link and you'll find plans for transmitters. Would be a lot of fun to start a QRP AM Net! Peanut Whistles have become very popular with the East Coast guys.

I must admit, that I had never been much into phone operation until I was introduced to "Angel Music". The other thing is, that the typical guys on AM tend to be avid home brewers and are a lot of fun to talk to. If you'd like to hear what a good AM signal sounds like, 80 meters is pretty active in the evenings this time of year between 3870 and 3885 (3870 is the West Coast frequency and 3885 is widely used on the East Coast). Plus there is activity nightly on 14.286 and generally a lot of activity on the weekends around 29.0 to 29.1.

Also, if you'd like to subscribe to a very good publication devoted to vintage gear, I'd highly reccomend Electric Radio. Not only do they publish all sorts of construction articles, but they have a pretty extensive classifieds section as well. Information on ER can be found at:

<http://members.aol.com/tcsopr/ermag.htm>

Also, one last note on where to get parts. Antique Electronic Supply <http://www.tubesandmore.com/> is a great source for tubes and other components. I've bought a bunch of stuff from these guys, and have never been dissapointed. Ocean State Electronics <http://www.oselectronics.com> is another great source for parts and they even stock tube transmitter kits!

I must say that it's been a lot of fun playing with tubes, and I think a lot of you will have a blast with it if you decide to give it a go. E-mail me if I can be of any help. Hope the above info is usefull...

72/73's
Trev
KG6CYN

-----Original Message-----

From: Dave Fouchey <dafouchey@home.com>
Date: Wed, 19 Dec 2001 15:28:34 -0500
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: Re: AM: Was Tube messages

> So does my Alinco DX77T, anyone want to give it a go?
>
> Dave
> WA4EMR/8
>
> At 01:44 PM 12/19/2001 -0600, Ed Manuel wrote:
> >Ah ha. AM you say. Well, funny thing about that. The FT-817 does that too.
> >
> >Ed, N5EM
> >
> >
> >At 01:31 PM 12/19/01 -0600, you wrote:
> >>An AM rig? Dang, why didn't I think of that before now!!!! I'd love to try
> >>something like that! My Drake TR-3 transmits am, but I have to listen in
> >>SSB so I don't even bother with it. It wouldn't sound any different to me!
> >>^D I've heard that AM has great fidelity, so I've always wanted to give
> >>it a shot
> >>
> >>72/73/oo
> >>Rob, kc0bom
> >
> >Ed Manuel, N5EM Houston, TX (Harris Co.) EL29
> >Houston QRP Club, Houston Amateur Television Society
> ><http://www.n5em.com/n5em@amsat.org>
> >
> >
>
>
>

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Date: Wed, 19 Dec 2001 15:43:02 -0600
From: "Rob Matherly" <kc0bom@arrl.net>
To: <fxtech@earthlink.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115342] Re: AM: Was Tube messages
Message-ID: <01aa01c188d6\$242ea4a0\$6a11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for the info Trevor! I'm sure MOST of the guys here are
appreciative of it :^)

72/73/oo
Rob, kc0bom
ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPp-I #19

Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 MSN - jimrob@jetnetinc.net

----- Original Message -----
From: Trevor Jacobs <fxtech@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Wednesday, December 19, 2001 3:37 PM
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KG6CYN

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> >
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> >>Rob, kc0bom
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> >Ed Manuel, N5EM Houston, TX (Harris Co.) EL29
> >Houston QRP Club, Houston Amateur Television Society
> ><http://www.n5em.com/> n5em@amsat.org
> >
> >
>
>
>
>

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Date: Wed, 19 Dec 2001 14:44:47 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [115343] re tubes
Message-ID: <Pine.LNX.4.33.0112191423330.9694-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

No one has said anything that changes my mind. In 1957 while getting my BSEE I was trained in tubes in the classroom and study hall, but in Lab we had a graduate working at Texas Instruments and he sent the college "Care Packages" that had 100's of transistors in it.

At that time my Ham rig was a Heath DX-100 with sideband slicer, and a 2-b reciever. All tubes and on a hot day I hated the stuff. Often the DX-100 would develop a problem that was fixed with a new tube.

In Lab we learned that you could build a counter faster than a 12AU7 and it disipated no real heat with transistors. But we had no power transistors then so it was hard to make even 5 watts out. The transistors of the late 1950's were great but didn't give a hint of things to come.

I built a super-regen 3 transistor reciver that worked great. And a 2 watt crystal controled transmitter not unlike the TT-2 of today. Tubes were going out. You still bought tube type TV sets but ALL radios were transistor and cheap batteries lasted for many hours.

In 2000 Yeasu built the FT-817 which is all surface mount components and lots of integrated circuits and a few transistors and relays. It cost about the same as the DX-100 and 2-A reciever, but it works so much better it is just amazing!

If you have never owned anything with tubes in it count yourself lucky. I recall trying to build a low noise receiver amp with tubes. Using special tubes that ran red hot you could get a 2 DB noise figure. Today buy any nice FM radio and the system noise level will be well below 1 DB! Production!

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Wed, 19 Dec 2001 15:48:37 -0600
From: "Rob Matherly" <kc0bom@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115344] Re: re tubes
Message-ID: <01b801c188d6\$eba7b4e0\$6a11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone know where I can find one of those "Use a transistor, go to jail" bumper stickers?

72/73/oo

Rob, kc0bom

ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPP-I #19

Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 MSN - jimrob@jetnetinc.net

----- Original Message -----

From: Karl F. Larsen <k5di@zianet.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Wednesday, December 19, 2001 3:44 PM

Subject: re tubes

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- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Wed, 19 Dec 2001 15:52:42 -0600
From: "Rob Matherly" <kc0bom@arrl.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115345] Re: re tubes
Message-ID: <01bf01c188d7\$7e517ba0\$6a11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

How can you say that someone is fortunate to never own tubes? Is it because they are "old" technology? It's pretty apparent that your "point" is that exactly. I can only assume by this that you think old cars and the people that own them are below your high standards too. What about old books? Should we just burn them all because there are newer editions out?

And as for your troubles building tube gear, that's your problem, not the tubes'.

72/73/oo
Rob, kc0bom
ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPp-I #19

Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 MSN - jimrob@jetnetinc.net

----- Original Message -----

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Sent: Wednesday, December 19, 2001 3:44 PM
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- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Wed, 19 Dec 2001 21:55:48 +0000
From: Dragon Singer <WM-Scace@wiu.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115346] Tubes another aspect
Message-ID: <5.1.0.14.0.20011219215106.028ab948@pop3.wiu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Gang,
Wayne K9DI es Sequoia here. With all due respect to Karl es

others who are the giants on whose shoulders I stand as a ham. Here is another aspect of "Hollow State" technology that no one has touched on: Hollow state technology is easier for low vision folks (like myself) to try es work with than solid state es surface mount technology. Jeeze, it takes microscopes fer people with 20/20 vision to be able to work with Surface mount tech.
73/72 es M00/00

Respectfully and Sincerely Yours,

Wayne M. Scace

k9di@arrl.net
LICQ# 315313
FISTS# 4409
QRP-L# 2313
FPQRP-L# 217
SOC# 452
ARS # 1,082
Zombie # 800
<http://k9di.homestead.com/K9DIHam1.html>

Date: Wed, 19 Dec 2001 17:13:38 -0500
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [115347] Re: re tubes
Message-ID: <3C211112.BBB884AB@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yo Rob,

Tell us how 'ya really feel about it!

Rob Matherly wrote:

>
>
> And as for your troubles building tube gear, that's your problem, not the
> tubes'.
>

Date: Wed, 19 Dec 2001 17:17:55 -0500
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>
To: <kc0bom@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115348] Re: re tubes
Message-ID: <01eb01c188dc\$11a51a20\$3301b3d8@obvious>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sure -- they're in any drug store that has a tube tester (- :)

73,

Dick K2JQ

-----Original Message-----

From: Rob Matherly <kc0bom@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Wednesday, December 19, 2001 4:51 PM
Subject: Re: re tubes

>Does anyone know where I can find one of those "Use a transistor, go to
>jail" bumper stickers?

>

>72/73/oo

>Rob, kc0bom

>ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPp-I #19

Date: Wed, 19 Dec 2001 17:25:28 -0500
From: W2AGN <w2agn@pobox.com>
To: "Karl F. Larsen" <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115349] Re: re tubes
Message-ID: <0112191725280M.08524@njbirdman>
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Wednesday 19 December 2001 16:44, Karl F. Larsen wrote:

> No one has said anything that changes my mind. In 1957 while
> getting my BSEE I was trained in tubes in the classroom and study hall,
> but in Lab we had a graduate working at Texas Instruments and he sent the
> college "Care Packages" that had 100's of transistors in it.
>
> At that time my Ham rig was a Heath DX-100 with sideband slicer,
> and a 2-b receiver. All tubes and on a hot day I hated the stuff. Often
> the DX-100 would develop a problem that was fixed with a new tube.

--

Ther Drake 2B was a great receiver. Oddly, it was introduced in 1961, so in
1957 you must have had a prototype.

(Unless, of course, "EE" isn't the only "BS" you've got)

John L Sielke W2AGN
w2agn@pobox.com
<http://www.qsl.net/w2agn>

Date: Wed, 19 Dec 2001 22:28:14
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [115350] Re: re tubes
Message-ID: <F199oRdUYPUj1DcYAiG0000365d@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Karl F. Larsen (k5di@zianet.com) states:

[...]

>If you have never owned anything with tubes in it count yourself lucky.

[...]

Of course it all depends upon what you like about the hobby. I am mostly
interesting in tinkering around with circuits and trying to gain knowledge
about how they work. I suppose that is why I didn't bother to get a ham
license until just a couple months ago. :-)

I am not sure what is the attraction of vacuum tubes for me but it could be
that I am simply fascinated with "old technology" ... that and being a bit
loopy ... I do woodworking with handtools, hunt deer with flintlock and use
slide rules for 'round the house calculations.

On the other hand, I have no aversion to tinkering with surface mount

components either.

Brad KG6IOE

Have fun.

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>.

Date: Wed, 19 Dec 2001 17:27:07 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [115351] Re: re tubes
Message-ID: <3C21143A.32EC4B11@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl,

We seem to be of the same vintage, I got my BEE in 1962. I also spent four years studying tubes and tube circuits. I graduated and in industry I never saw a tube! Was my education wasted? No, but it could have prepared me better!

Unlike you I did a whole lot of stuff with tubes, both before and after I got my degree. I built many tube rigs. Of course it was not so hot in Washington, DC or in Ohio as it was in Texas so I didn't mind the heat!

Tubes are a part of our heritage. There is no law that says any of us have to learn about them these days, but some of us will still be fascinated, much as we are fascinated by spark gaps. If you don't like tubes use your DELETE key, I think Linux has one! But don't try to say that anyone should not learn about tubes!

73

Date: Wed, 19 Dec 2001 14:38:20 -0800
From: stjoh@ocsnet.net
To: qrp-l@lehigh.edu, Thomas Upton <stjohn@ocsnet.net>
Subject: [115352] OT - Procedure for changing address on License

Message-ID: <3C2116DC.40DB7690@ocsnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello, Gang!

Can anyone contact me, off list, and tell me the procedure for changing one's Address on one's License? A new ham has moved to Ohio, and needs to do so. If the easiest way is by email or through electronic means, I would appreciate knowing. Or if the FORMS are obtainable by email, it would be helpful. tn timer de AD6N Thomas R. Upton

Date: Wed, 19 Dec 2001 16:50:21 -0600
From: "Rob Matherly" <kc0bom@arrl.net>
To: <w6toy@erols.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115353] Re: re tubes
Message-ID: <020f01c188df\$8c55c3c0\$6a11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Amen Bruce!

72/73/oo
Rob, kc0bom
ARRL; FP Qrp -330; Live-Wire #442; IA QRP #143; SOC #497; QRPP-I #19

Visit my website! <http://www.qsl.net/kc0bom>

AIM - kc0bom, jimrob4 MSN - jimrob@jetnetinc.net

----- Original Message -----
From: Bruce Muscolino <w6toy@erols.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Wednesday, December 19, 2001 4:27 PM
Subject: Re: re tubes

Karl,

We seem to be of the same vintage, I got my BEE in 1962. I also spent

four years studying tubes and tube circuits. I graduated and in industry I never saw a tube! Was my education wasted? No, but it could have prepared me better!

Unlike you I did a whole lot of stuff with tubes, both before and after I got my degree. I built many tube rigs. Of course it was not so hot in Washington, DC or in Ohio as it was in Texas so I didn't mind the heat!

Tubes are a part of our heritage. There is no law that says any of us have to learn about them these days, but some of us will still be fascinated, much as we are fascinated by spark gaps. If you don't like tubes use your DELETE key, I think Linux has one! But don't try to say that anyone should not learn about tubes!

73

Date: Wed, 19 Dec 2001 23:05:08 +0000
From: Dragon Singer <WM-Scace@wiu.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [115354] Re: Tubes another aspect
Message-ID: <5.1.0.14.0.20011219230259.02935e70@pop3.wiu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Gang,
Wayne K9DI here. This came across my inbox so I'm following directions.

>Pse Fwd to qrp-l: Can't post only rcv. Tnx.
>Very true. Not only microscopes, but the steadyness of robotics. Without
>Hollow State, we wouldn't have Solid State. W/O OT's no Whipper snappers.
>Change & entropy are part of progress. Hollow State forgives OT errs. Solid
>State: Evaporates. 73 es GD, OT'er (Ron, W2WU)

Respectfully and Sincerely Yours,

Wayne M. Scace

k9di@arrl.net
LICQ# 315313
FISTS# 4409
QRP-L# 2313
FPQRP-L# 217

SOC# 452
ARS # 1,082
Zombie # 800
<http://k9di.homestead.com/K9DIHam1.html>

Date: Wed, 19 Dec 2001 18:06:16 -0500
From: "Tom Pennebaker" <n4rs@netpath-rc.net>
To: <inforhc@ip.etcasa.cu>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [115355] Re: Tube messages Time to learn
Message-ID: <006b01c188e1\$c485b280\$1e2a1bce@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You find the mag, year, and month, I'll probably have it. Will look up the
78 QST tomorrow...Tom N4RS

----- Original Message -----

From: "Prof. Arnaldo Coro Antich" <inforhc@ip.etcasa.cu>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Sent: Wednesday, December 19, 2001 14:36 PM
Subject: Re: Tube messages Time to learn

> Dear amigo Alex:
> I have a Drake receiver that could benefit
> a lot by replacing worn out vacuum tubes
> with FET's.
> If you find the original articles about this topic
> please tell me.
> I remember a British magazine that carried
> an article on how to adapt a BC455 Command
> Set Receiver for using FET's in all the RF
> and IF stages, but don't remember the name
> of the magazine or the year this was
> published. I think that they used a germanium
> diode for the detector, and a standard bipolar
> transistors audio amplifier module (this was
> in the days before the LM380 and LM386's !!!
> Seasons Greetings and a Happy and
> Prosperous Year 2002
> 73 and DX
> YOur friend in Havana and full time QRP experimenter
> Arnie Coro

> C02KK
> ----- Original Message -----
> From: "AI2Q Alex" <ai2q@adelphia.net>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: mi rcoles, 19 de diciembre de 2001 16:20
> Subject: RE: Tube messages Time to learn
>
>
> > Hi Ron:
> >
> > The miniature glass tubes for the R-392, fitted them with off-the-shelf
El
> > Cheapo Radio Shack JFETs (offhand, I think I used MPF-105s or MPF-102s),
> > replace the originals in the set's first- and second IF's 26C6 mixer
> > sockets. There's no noticeable difference in performance than with the
> > original tubes.
> >
> > As I said, I opened the tubes using a Dremel cutting wheel. I clamped
the
> > Dremel motor in a drill-press vise and pointed it so that its rotation
> would
> > cause any sparks and possible fragments to fly away from me. Of course,
I
> > wear shop goggles when doing this.
> >
> > As I was cutting, I could actually see a point of contact with the glass
> > that was red hot. Apparently the Dremel blade was melting the glass
> somewhat
> > as it cut. All I can say is that old tubes can be opened up successfully
> > with a little practice.
> >
> > I should get ahold of the QST article/s about "solid-stating" tubes.
There
> > was an article in the December 1978 article that was written by AA6PY.
> Does
> > anyone have this article available?
> >
> > Like yourself, I would also be interested in any other articles about
this
> > subject, or about the old Sartori Tubesters.
> >
> > Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.
> >
> >
> > -----Original Message-----
> > From: thomasr2@gdls.com [mailto:thomasr2@gdls.com]
> > Sent: Wednesday, December 19, 2001 12:44 PM
> > To: ai2q@adelphia.net

> > Subject: RE: Tube messages Time to learn
> >
> >
> >
> >
> > Alex,
> >
> > I was intrigued by your post about replacing some tubes in an R392 with
> > FETs. I am interested in doing the same with a couple of my boatanchor
> > receivers. I wonder what types you replaced and what FETs you used. Do
> > you have any other info or source you could suggest that might provide
me
> > with enough knowledge to design my own FET replacements for receiver
> vacuum
> > tubes? I know there were tubesters years ago available for Collins
> > receivers, but I've never been able to find any technical data on how
they
> > were made. Any help you could provide would be sincerely appreciated.
> >
> > Happy Holidays and 73,
> >
> > Ron N4RT
> >
> >
> >
> >
> >
>

Date: Wed, 19 Dec 2001 18:17:45 -0500 (EST)
From: baltimoremd@baltimoremd.com
To: Charles <cvest@hit.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115356] Re: Nukes (was RE: Tube messages)
Message-ID: <20011219181721.H41995-1000000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 19 Dec 2001, Charles wrote:

> I understand high power tube audio amps are effective means of removing ear
> junk

Only during contests and/or fox hunts

baltimoremd@baltimoremd.com

Thom LaCosta K3HRN Webmaster

<http://www.baltimoremd.com/>
<http://www.baltimorehon.com/>
<http://www.zerobeat.net>

Baltimore's Home Page
Home of the Baltimore Lexicon
Home of The QRP Web Ring
and Drake Mail List Pages

Date: Wed, 19 Dec 2001 17:21:29 -0600
From: "George, W5YR" <w5yr@att.net>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [115357] Re: re tubes
Message-ID: <3C2120F9.E4AB50D8@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl, you are a nice guy and a great op . . . why do you do things like this?

Some people like tubes and some, like you, don't. But, that doesn't make one a good person or a bad person. And no one is posting on here in an effort to change anyone's mind. You don't have to agree with anyone - just DEL.

As my teenaged grandkids keep telling me, "Lighten up!"

In 1957 I was just starting with TI, designing and building their first digital computer. It had over 3000 tubes in it and required 80 tons of a/c. Now, that was a QRO experience! And, yes, we did have a few transistors here and there, but very few.

Good luck with the Foxii tomorrow evening! I have to miss out due to family obligations, but I'll be back next week! <:}

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

All incoming and outgoing email virus-checked by Norton Anti-Virus 2002

"Karl F. Larsen" wrote:

>

> No one has said anything that changes my mind. In 1957 while
> getting my BSEE I was trained in tubes in the classroom and study hall,

> but in Lab we had a graduate working at Texas Instruments and he sent the
> college "Care Packages" that had 100's of transistors in it.

<monster snip>

Date: Wed, 19 Dec 2001 18:24:28 -0500
From: "Jim Stamper" <jstamper@shentel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115358] Straight Key source
Message-ID: <000701c188e4\$4e6f90e0\$ae1c6fcc@jim>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anybody know a source for a very inexpensive straight key--something like a J-38. Want full size, not the Christmas tree ornament. Too clumsy for that. Just want something to try on Straight Key night. Some years ago I lent my old one to some kids I was trying to interest in taking the exam. Never got it back and they never took the exam.

jim-
KG4LDY
James H. Stamper
519 Park Avenue
Woodstock, VA 22664-1260
540-459-8350

Date: Wed, 19 Dec 2001 17:31:21 -0600
From: "T.E. 'Doc' Drake - W5TB" <w5tb@arrl.net>
To: <jstamper@shentel.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [115359] Re: Straight Key source
Message-ID: <036d01c188e5\$442ef160\$0200a8c0@altn1.tx.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Jim -- E.T. carries about any kind of key you could want. Check out the =
Japanese made ameco for \$17 - but I've got ta warn ya -- when you start =

looking at this site you can go a little crazy, but Hey! -- it's =
Christmas -- treat yourself ;-)

<http://www.morsex.com/keys.htm>

No relationship but a very satisfied customer

73, T.E. 'Doc' Drake, W5TB
Arlington, Texas
FISTS # 5365 QRP/ARCI # 3532 ARRL Life Member K1 #181 K2#1617

----- Original Message -----=20
From: "Jim Stamper" <jstamper@shentel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, December 19, 2001 5:24 PM
Subject: Straight Key source

> Anybody know a source for a very inexpensive straight key--something =
like a
> J-38. Want full size, not the Christmas tree ornament. Too clumsy =
for
> that. Just want something to try on Straight Key night. Some years =
ago I
> lent my old one to some kids I was trying to interest in taking the =
exam.
> Never got it back and they never took the exam.
>=20
> jim-
> KG4LDY
> James H. Stamper
> 519 Park Avenue
> Woodstock, VA 22664-1260
> 540-459-8350
>=20
>=20

Date: Wed, 19 Dec 2001 18:42:23 -0500
From: "Lee Mairs" <lmairs@cox.rr.com>
To: <jstamper@shentel.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [115360] Re: Straight Key source
Message-ID: <019a01c188e6\$cf180cc0\$6401a8c0@cox.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I bought the "Christmas Special" from MorseX as a toy/Christmas ornament. I was happily surprised to find that it could be adjusted to work as a good, comfortable straight key.

Of course, it will be very hard to sit in front of the tree and use it for SK night. I may have to go out and party instead, Nevertheless, the key would work fine for SK night.
73 de Lee, km4yy

We have rudiments of reverence for the human body, but we consider as nothing the rape of the human mind.
--Eric Hoffer

----- Original Message -----

From: "Jim Stamper" <jstamper@shentel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, December 19, 2001 6:24 PM
Subject: Straight Key source

> Anybody know a source for a very inexpensive straight key--something like
> a
> J-38. Want full size, not the Christmas tree ornament. Too clumsy for
> that. Just want something to try on Straight Key night. Some years ago I
> lent my old one to some kids I was trying to interest in taking the exam.
> Never got it back and they never took the exam.
>
> jim-
> KG4LDY
> James H. Stamper
> 519 Park Avenue
> Woodstock, VA 22664-1260
> 540-459-8350
>
>

Date: Wed, 19 Dec 2001 17:50:57 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [115361] tubes sound better?

Message-ID: <01C188B5.B7D17460.nkennedy@tcainternet.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

How do you prove something that's entirely subjective? Isn't that like proving that cherry pie is better than apple? Or Guinness is better than Samuel Adams?

72--Nick, WA5BDU

-----Original Message-----

From: Rob Matherly [SMTP:kc0bom@arrl.net]

It's actually a proven fact that vacuum tube based audio systems are MUCH better sounding than transistorized deals. AAMOF, Stereo amps with tubes are the "in thing" now.

72/73/oo

Rob, kc0bom

End of QRP-L Digest 2410

